

HDI 4000

Ultrasound System

Acoustic Output Tables

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1 *Introduction*

The acoustic output tables are organized by scanhead model and operating mode. The output display indices are calculated with the precision and accuracy described below.

Mechanical and Thermal Indices Display Accuracy

The accuracy result for the mechanical index (MI) is stated statistically. With 90% confidence, 90% of the measured MI values will be within +31% to -25% of the displayed MI value or +0.15 of the displayed value, whichever value is larger.

The accuracy result for the thermal index (TI) is stated statistically. With 90% confidence, 90% of the measured TI values will be within +48% to -39% of the displayed TI value or +0.15 of the displayed value, whichever value is larger. The +48% to -39% values equate to +1.7 dB to -2.2 dB.

A displayed value of 0.0 for MI or TI means that the calculated value is less than 0.05.

See “Output Display” in the “Safety” section of the *Reference Manual* for further discussion.

2 Acoustic Output Default Tables

C5-2 Scanhead	TI	2D		M-Mode		Color		Duplex Doppler		Simult. Doppler		CPA		Triple Mode Color		Triple Mode CPA	
		TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI
Abdomen																	
Abdomen	s	0.2	0.8	0.2	1.0	1.0	1.5	0.5	0.7	0.5	0.7	1.1	1.5	0.4	0.8	0.4	0.8
General	s	0.2	0.8	0.2	1.0	1.1	1.5	0.5	0.7	0.5	0.7	1.1	1.5	0.4	0.8	0.4	0.8
Renal	s	0.2	1.0	0.2	1.0	1.7	1.5	0.4	0.6	0.4	0.6	1.2	1.5	0.4	0.8	0.4	0.8
Gyn/Fertility																	
Gynecology	s	0.2	0.7	0.4	1.1	1.3	1.5	0.4	0.6	0.5	0.8	1.3	1.5	1.2	0.9	1.2	0.9
OB																	
OB	b	0.1	0.7	0.1	0.8	1.0	1.5	1.4	0.6	1.4	0.6	0.9	1.5	1.3	0.8	1.3	0.8
Fetal Echo	b	0.4	0.9	0.7	1.2	1.3	1.5	1.5	0.6	1.5	0.6	1.6	1.5	1.3	0.8	1.4	0.7

C7-4 Scanhead	TI	2D		M-Mode		Color		Duplex Doppler Color/CPA		Simult. Doppler		CPA		Triple Mode Color		Triple Mode CPA	
		TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI
Abdomen																	
General	s	0.1	0.3	0.1	0.3	2.1	1.1	0.4	0.6	0.4	0.6	1.9	1.1	0.5	0.9	0.5	0.8
Abdomen	s	0.0	0.3	0.1	0.3	2.0	1.1	0.4	0.6	0.8	0.6	1.9	1.1	0.8	0.8	0.9	0.8
Renal	s	0.0	0.4	0.1	0.4	0.7	1.3	0.5	0.7	0.6	0.7	0.7	1.3	0.4	0.8	0.6	0.8
Gyn/Fertility																	
Gynecology	s	0.1	0.3	0.1	0.3	1.7	1.1	0.5	0.7	0.7	0.7	1.9	1.1	0.8	0.8	0.8	0.8
OB																	
OB	--	0.1	0.3	0.1	0.3	2.1	1.1	1.2	0.6	1.2	0.6	1.9	1.1	1.3	0.9	1.3	0.8
Fetal Echo	b	0.1	0.3	0.1	0.4	1.2	1.5	1.2	0.4	1.2	0.6	1.1	1.5	1.3	0.9	1.3	0.7

C8-5 Scanhead	TI	2D		M-Mode		Color		Duplex Doppler color/CPA		Simult. Doppler		CPA		Triple Mode Color		Triple Mode CPA	
		TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI
Pediatric																	
General	s	0.3	0.6	0.3	0.6	0.5	0.6	1.0	0.7	0.9	0.7	0.5	0.5	0.7	0.7	0.8	0.7
Ped Abdomen	s	0.1	0.4	0.1	0.4	0.4	0.6	0.2	0.5	0.2	0.6	0.5	0.6	0.3	0.8	0.7	0.8
Pediatric Card																	
Neonatal	c	0.4	0.6	0.4	0.6	0.8	0.6	1.3	0.7	1.3	0.7	0.7	0.5	1.0	0.7	1.2	0.7
Peripheral Vasc																	
Vascular	s	0.2	0.7	0.2	0.7	0.1	0.8	0.2	0.5	0.2	0.6	0.1	0.8	0.2	0.9	0.1	0.7

D2 CW Scanhead	TI	Doppler PW or CW	
		Application	TI
Adult Card			
Cardiac	s	0.2	0.0

D5 CW Scanhead	TI	Doppler PW or CW	
		Application	TI
Adult Card			
Cardiac	s	0.2	0.0
Cerebrovascular			
Vascular	s	0.2	0.0

C9-5 Scanhead	TI	2D		M-Mode		Color		Duplex Doppler CPA		Simult. Doppler		CPA		Triple Mode Color		Triple Mode CPA	
	Application	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI
Abdomen																	
General	s	0.3	1.2	0.3	1.0	0.4	1.2	0.1	0.7	0.2	0.7	0.4	1.2	0.1	0.7	0.1	0.6
Gyn/Fertility																	
Gynecology	s	0.4	0.9	0.4	1.0	1.0	0.9	0.4	0.9	0.4	0.9	0.9	0.9	0.5	0.9	0.4	0.8
OB																	
OB	b	0.4	0.9	0.4	1.0	1.1	1.1	0.7	0.7	0.7	0.7	1.1	1.1	0.7	0.7	0.7	0.6
Prostate																	
Prostate	s	0.3	1.2	0.3	1.0	0.4	1.2	0.1	0.7	0.2	0.7	0.4	1.2	0.1	0.7	0.1	0.6

L12-5 38 Scanhead	TI	2D		M-Mode		Color		Duplex Doppler color/CPA		Simult. Doppler		CPA		Triple Mode Color		Triple Mode CPA	
	Application	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI
Musculoskeletal																	
Musculoskeletal	s	0.0	0.5	0.0	0.5	0.4	0.7	0.2	0.7	0.2	0.7	0.4	0.7	0.3	0.8	0.2	0.7
Pediatric																	
Pediatric	s	0.1	0.5	0.0	0.5	0.3	0.9	0.1	0.7	0.1	0.7	0.3	0.9	0.2	0.7	0.2	0.7
Peripheral/Vasc																	
Vascular	s	0.1	0.7	0.1	0.7	0.3	0.9	0.1	0.5	0.2	0.7	0.4	0.9	0.2	0.7	0.2	0.7
Small Parts																	
Breast	s	0.0	0.4	0.0	0.5	0.3	0.7	0.2	0.8	0.2	0.8	0.3	0.7	0.2	0.8	0.2	0.7
Small Parts	s	0.0	0.5	0.0	0.5	0.5	0.9	0.2	0.7	0.2	0.7	0.5	0.9	0.2	0.9	0.2	0.7
Generic																	
General	s	0.0	0.5	0.0	0.5	0.2	0.7	0.2	0.7	0.2	0.7	0.2	0.7	0.2	0.9	0.2	0.7

L12-5 50 mm Scanhead	TI	2D		M-Mode		Color		Duplex Doppler color/CPA		Simult. Doppler		CPA		Triple Mode Color		Triple Mode CPA	
		TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI
Application																	
Musculoskeletal																	
Musculoskeletal	s	0.1	0.6	0.1	0.6	0.7	1.1	0.2	0.7	0.2	0.7	0.7	1.1	0.3	0.8	0.3	0.8
Pediatric																	
Pediatric	s	0.1	0.6	0.1	0.5	0.6	1.3	0.2	0.7	0.2	0.7	0.6	1.3	0.2	0.8	0.2	0.8
Peripheral/Vasc																	
Vascular	s	0.0	0.6	0.1	0.6	0.7	1.3	0.2	0.7	0.2	0.7	0.7	1.3	0.2	0.7	0.2	0.8
Small Parts																	
Breast	s	0.1	0.5	0.1	0.6	0.8	1.3	0.2	0.7	0.2	0.7	0.8	1.3	0.3	0.8	0.2	0.8
Small Parts	s	0.1	0.6	0.1	0.6	0.5	1.1	0.2	0.8	0.2	0.8	0.5	1.1	0.3	0.8	0.3	0.8
Vascular Surgery																	
Vascular	s	0.0	0.6	0.1	0.6	0.7	1.3	0.2	0.7	0.2	0.7	0.7	1.3	0.2	0.7	0.2	0.8
Generic																	
General	s	0.1	0.6	0.1	0.6	0.4	1.1	0.3	0.6	0.3	0.7	0.4	1.1	0.3	0.8	0.2	0.5

C8-4V Scanhead	TI	2D		M-Mode		Color		Duplex Doppler color/CPA		Simult. Doppler		CPA		Triple Mode Color		Triple Mode CPA	
		TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI
Application																	
Gyn/Fertility																	
General	s	2.5	1.1	2.2	1.0	3.2	1.0	2.9	0.7	2.9	0.7	3.3	1.1	3.0	0.1	3.0	0.7
Gynecology	s	2.3	1.3	2.2	1.0	3.2	1.0	2.9	0.7	2.9	0.7	3.3	1.1	3.0	0.1	3.0	0.7
OB																	
OB	b	2.5	1.1	2.2	1.0	3.5	1.0	1.7	0.9	1.7	0.9	3.0	1.0	3.0	0.7	2.9	0.7

CL15-7 Scanhead		TI	2D		M-Mode		Color		Duplex Doppler color/CPA		Simult. Doppler		CPA		Triple Mode Color		Triple Mode CPA		
Application			TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	
Abdominal Surgery																			
Intraoperative		s	0.0	0.5	0.1	0.4	1.8	0.5	0.1	0.8	0.1	0.8	2.1	0.5	0.3	0.7	0.3	0.6	
Musculoskeletal																			
Musculoskeletal		s	0.0	0.5	0.0	0.5	2.3	0.5	0.1	0.9	0.1	0.9	3.2	0.5	0.1	0.7	3.2	0.5	
Small Parts																			
Small Parts		s	0.0	0.4	0.1	0.4	1.6	0.5	0.2	0.8	0.2	0.7	1.5	0.5	0.3	0.7	0.2	0.5	
Vascular Surgery																			
Vascular		s	0.0	0.5	0.0	0.5	2.2	0.4	0.1	0.5	0.1	0.6	2.9	0.5	0.1	0.7	0.1	0.6	
Generic																			
General		s	0.0	0.5	0.0	0.5	1.8	0.5	0.0	0.3	0.0	0.3	1.8	0.5	0.1	0.3	0.1	0.3	

P4-2 Scanhead		TI	2D		M-Mode		Color		Duplex Doppler Color/CPA		Simult. Doppler		Duplex CW color		CPA		Color M-Mode		Triple Mode Color		Triple Mode CPA		
Application			TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	
Abdomen																							
Abdomen		s	0.1	1.4	0.0	1.4	0.8	1.5	1.5	0.9	1.5	0.9	0.4	0.0	0.8	1.5	--	--	1.6	1.0	1.8	1.0	
General		s	0.1	1.0	1.3	0.6	1.4	1.1	0.8	0.9	1.1	1.0	0.3	0.0	--	--	1.0	1.1	1.4	1.0	--	--	
Renal		s	0.1	1.5	0.0	1.5	0.9	1.3	1.4	0.8	1.4	0.8	0.4	0.0	0.9	1.3	--	--	1.6	1.0	1.8	1.0	
Adult Card																							
Cardiac		s	0.1	1.0	0.6	1.3	1.4	1.1	0.8	0.9	1.1	1.0	0.3	0.0	--	--	1.0	1.1	0.7	0.9	--	--	
TCD																							
TCD		c	5.0	1.5	1.9	1.1	4.5	1.2	0.3	0.6	0.6	0.7	1.1	0.0	4.6	1.2	--	--	--	--	--	--	

P5-3 Scanhead	TI	2D		M-Mode		Color		Duplex Doppler Color/CPA		Simult. Doppler		Duplex CW color		CPA		Color M-Mode		Triple Mode Color		Triple Mode CPA	
Application		TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI
Abdomen																					
Abdomen	s	2.3	1.0	1.6	1.3	1.8	0.9	0.0	0.7	0.1	0.7	0.3	0.0	1.8	0.9	--	--	0.1	0.8	0.1	0.7
General	s	2.6	1.0	1.2	1.3	1.1	0.9	0.1	0.4	0.2	0.7	0.2	0.0	--	--	1.4	0.8	0.8	0.8	--	--
Adult Card																					
Cardiac	s	2.6	1.0	1.2	1.3	1.1	0.9	0.1	0.4	0.2	0.7	0.2	0.0	--	--	1.4	0.8	0.5	0.8	--	--
TCD																					
TCD	c	5.0	1.5	1.9	1.1	4.5	1.2	0.3	0.6	0.6	0.7	1.1	0.0	4.6	1.2	--	--	--	--	--	--

L7-4 Scanhead	TI	2D		M-Mode		Color		Duplex Doppler color/CPA		Simult. Doppler		CPA		Triple Mode CPA		Doppler TDI	
Application		TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI
Abdominal Surgery																	
Musculoskeletal	s	0.1	0.6	0.1	0.6	1.1	0.6	0.2	1.4	0.2	1.4	1.1	0.6	0.2	0.8	0.2	0.8
Cerebrovascular																	
Carotid	s	0.0	0.5	0.0	0.5	0.6	1.2	0.4	0.6	0.4	0.7	0.7	1.2	0.4	0.8	0.4	0.8
Peripheral Vasc																	
Venous	s	0.1	0.7	0.1	0.6	0.6	1.2	0.4	0.7	0.4	0.7	0.7	1.2	0.4	0.8	0.4	0.8
Small Parts																	
Small Parts	s	0.0	0.3	0.1	0.3	0.6	1.2	0.4	0.8	0.4	0.8	0.6	1.2	0.4	0.8	0.4	0.7
Generic																	
General	s	0.1	0.7	0.1	0.6	0.9	0.5	0.4	0.7	0.4	0.7	1.0	0.7	0.4	0.8	0.4	0.8

3D5-3 Scanhead	TI	2D		M-Mode		Color		Duplex Doppler color/CPA		Simult. Doppler		CPA		Triple Mode Color		Triple Mode CPA	
		TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI
Abdomen																	
General	s	0.1	0.7	0.3	0.7	1.4	0.9	0.7	0.8	0.7	0.8	1.4	1.0	0.7	0.8	0.7	0.8
Abdomen	s	0.1	0.7	0.3	0.7	1.3	0.9	0.5	0.8	0.5	0.8	1.3	0.9	0.6	0.8	0.6	0.8
Gyn/Fertility																	
Gynecology	s	0.1	0.7	0.3	0.7	1.6	1.0	0.5	0.8	0.5	0.8	1.4	0.9	0.7	0.8	0.7	0.8
OB																	
OB	b	0.1	0.7	0.3	0.7	1.4	0.9	2.0	0.8	2.0	0.8	1.4	1.0	1.8	0.8	1.8	0.8

3D7-4 Scanhead	TI	2D		M-Mode		Color		Duplex Doppler color/CPA		Simult. Doppler		CPA		Triple Mode Color		Triple Mode CPA	
		TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI
Abdomen																	
General	s	0.1	0.7	0.3	0.7	1.4	0.9	0.7	0.8	0.7	0.8	1.4	1.0	0.7	0.8	0.7	0.8
Abdomen	s	0.1	0.7	0.3	0.7	1.3	0.9	0.5	0.8	0.5	0.8	1.3	0.9	0.6	0.8	0.6	0.8
Gyn/Fertility																	
Gynecology	s	0.1	0.7	0.3	0.7	1.6	1.0	0.5	0.8	0.5	0.8	1.4	0.9	0.7	0.8	0.7	0.8
OB																	
OB	b	0.1	0.7	0.3	0.7	1.4	0.9	2.0	0.8	2.0	0.8	1.4	1.0	1.8	0.8	1.8	0.8

MPT7-4 Scanhead	TI	2D		M-Mode		Color		Duplex Doppler color/CPA		Simult. Doppler		CW		Duplex Color CW	
		TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI
Adult Card															
TEE	s	0.9	0.6	0.5	0.5	1.6	0.6	0.5	0.2	0.6	0.7	0.5	0.0	0.5	0.0
Generic															
General	s	1.9	0.7	1.3	0.6	2.5	0.6	0.7	0.4	1.4	0.6	0.0	0.3	0.5	0.0

3D8-5V Scanhead	TI	2D		M-Mode		Color		Duplex Doppler color/CPA		Simult. Doppler		CPA		Triple Mode Color		Triple Mode CPA	
		TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI
Abdomen																	
General	s	0.6	0.5	0.7	0.7	0.3	0.7	0.2	0.8	0.2	0.8	0.4	0.7	0.1	0.7	0.1	0.5
Gyn/Fertility																	
Gynecology	s	0.6	0.6	0.7	0.6	0.3	0.9	1.3	0.7	1.3	0.7	0.3	0.9	0.7	0.6	0.7	0.6
OB																	
OB	b	0.7	0.8	0.6	0.6	0.3	0.8	0.6	0.8	0.6	0.8	0.3	0.9	0.4	0.7	0.4	0.7

P7-4 Scanhead	TI	2D		M-Mode		Color		Duplex Doppler Color/CPA		Simult. Doppler		Duplex CW color		CPA		Color M-Mode		Triple Mode Color	
		TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI	TI	MI
Abdomen																			
General	s	2.0	0.9	0.7	0.8	1.6	1.0	0.2	0.4	0.2	0.6	0.8	0.0	--	--	0.7	0.6	0.5	0.9
Pediatric																			
Neonatal	c	0.8	0.4	0.5	0.4	2.6	1.1	0.6	0.5	0.7	0.5	0.1	0.2	2.5	1.0	--	--	0.9	0.5
Ped. Card																			
Ped Card	s	2.0	0.9	0.7	0.8	1.6	1.0	0.2	0.4	0.2	0.6	0.8	0.0	--	--	0.7	0.6	0.5	0.9

3 Track 3 Tables

Definition of Terms Used in Acoustic Output Tables

Symbols used in the tables are described below:

A_{aprt} : the area of the active aperture measured in square centimeters.

d_{eq} at PII_{max} : the equivalent beam diameter at the point where the free-field, spatial peak pulse intensity integral is a maximum in centimeters.

$d_{eq}(z_{sp})$: the equivalent beam diameter as a function of axial distance z ; equal to $[(4/\pi)(W_0/I_{TA}(z))]^{0.5}$ where $I_{TA}(z)$ is the temporal-average intensity as a function of z in centimeters.

Dim. of A_{aprt} : the active aperture dimensions for the azimuthal and elevational planes in centimeters.

SV: Doppler sample volume.

Control 1-7: the specified control settings described in the notes beneath the table.

f_c : the center frequency in MHz.

FR: frame rate.

FL: focal length.

FZ: focal zone.

$I_{pa,3} @ MI_{max}$ is the derated pulse average intensity at the operating condition of maximum MI.

$I_{TA,3}(z_1)$: the derated spatial peak, temporal average intensity at axial distance z_1 (milliWatts per square centimeter).

LD: line density.

MI: the mechanical index.

PD: the pulse duration in microseconds.

Pr.3: the derated peak rarefactional pressure measured in MegaPascals.

P_r at PII_{max} : the peak rarefactional pressure at the point where the free-field, spatial peak pulse intensity integral is a maximum in MegaPascals.

PRF: the pulse repetition frequency in Hertz.

ROC: the radius of curvature in centimeters.

TIB: the bone thermal index.

TIC: the cranial thermal index.

TIS_{scan}: the soft tissue thermal index in an auto-scanning mode.

TIS_{non-Scan}: the soft tissue thermal index in the non-autoscanning mode.

W₃(z₁): the derated ultrasonic power at axial distance z₁.

Wo: the ultrasonic power, except for TIS_{scan}. Wo with reference to TIS_{scan} is the ultrasonic power passing through a one centimeter window in milliWatts.

z₁: the axial distance corresponding to the location of maximum [min (W₃ (z), I_{ta.3} (z) x 1 cm²)], where z ≤ z_{bp} (centimeters).

$$z_{bp} = 1.69 \sqrt{A_{aprt}}.$$

Z_{sp}: For MI, z_{sp} is the axial distance at which p_{r.3} is measured. For TIB, z_{sp} is the axial distance at which TIB is a maximum (z_{sp} = z_{b.3} centimeters).

Scanhead Model and Operating Mode: C5-2, 2D & 2D+M

			TIS			TIB	TIC	
Index Label			MI	Scan	Non-Scan			
					A _{aprt} ≤1	A _{aprt} >1		
Maximum Index Value			1.65	0.57	1.74	0.07	0.16	(b)
Assoc. Acoustic Parameter	P _{r.3}	(MPa)	3.01					
	W _o	(mW)		160	(c)		141	(b)
	min of [W _o (z ₁), I _{TA.3(z₁)}] (mW)					6.27		
	z ₁	(cm)				3.50		
	z _{bp}	(cm)				3.13		
	z _{sp}	(cm)	1.50				4.60	
	d _{eq} (z _{sp})	(cm)					0.35	
	f _c	(MHz)	2.31	2.45	(c)	2.45	2.54	(b)
	Dim of A _{aprt}	X (cm)		2D:5.27 M:2.64	(c)	2.64	1.32	(b)
		Y (cm)		1.30	(c)	1.30	1.30	(b)
Other Information	PD	(μsec)	0.84					
	PRF	(Hz)	* 54.3					
	P _r @PII _{max}	(MPa)	1.70					
	d _{eq} @PII _{max}	(cm)					0.35	
	Focal Length	FL _x (cm)		14.5	(c)	14.5		(b)
		FL _y (cm)		8.20	(c)	8.20		(b)
	I _{pa.3} @ MI _{max}	(W/cm ²)	94.0					
Operating Control Conditions	Control 1	MI						
	Control 2		TIS_as					
	Control 3			Tis_as_U		TIB_bs		
	Control 4							
	Control 5							
	Control 6							
	Control 7							

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D mode, General Imaging, FZ 3, FR 54.3

Control 2: 2D+M mode, Penetration Imaging, FZ 7, FR 15.2

Control 3: 2D+M mode, Penetration Imaging, FZ 5, FR 25.9

Scanhead Model and Operating Mode: C5-2, 2D+Color, Triple, CPA & Triple CPA

		MI	TIS		TIB	TIC	
Index Label			Scan	Non-Scan		Non-Scan	
				A _{aprt} ≤1	A _{aprt} >1		
Maximum Index Value		1.10	1.78	1.06	(c)	0.92	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	1.75				-	
	W _o (mW)		209	80.1		257	(b)
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)				(c)	-	
	z ₁ (cm)				(c)	-	
	z _{bp} (cm)				(c)	-	
	z _{sp} (cm)	4.00				5.40	
	d _{eq} (z _{sp}) (cm)					0.48	
	f _c (MHz)	2.55	2D: 2.77 CPA: 2.55	2D: 2.76 PD: 2.77 Col: 2.78	(c)	2.54	(b)
	Dim of A _{aprt}	X (cm)		2D: 5.27 CPA: 2.14	2D: 4.06 PD: 0.74 Col: 4.56	1.73	(b)
		Y (cm)		1.30	1.30	(c)	1.30
Other Information	PD (μsec)	1.78				-	
	PRF (Hz)	* 999				-	
	P _r @PII _{max} (MPa)	2.19				-	
	d _{eq} @PII _{max} (cm)					0.45	
	Focal Length	F _L _x (cm)	500	3.50	(c)	-	(b)
		F _L _y (cm)	8.20	8.00	(c)	-	(b)
Operating Control Conditions	I _{pa.3} @ MI _{max} (W/cm ²)	165		-	-	-	
	Control 1	MI					
	Control 2		TIS_as				
	Control 3			Tis_as_U			
	Control 4					TIB_bs	
	Control 5						
	Control 6						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D+Color mode, General Imaging, FZ 1, FR 4.26

Control 2: 2D+Color mode, General Imaging, FZ 3, FR 14.74

Control 3: Triple mode, Penetration Imaging, FZ 2, FR 1.91

Control 4: Triple mode, Penetration Imaging, FZ 5, FR 1.51

Scanhead Model and Operating Mode: C5-2, Pulsed Doppler & 2D+Pulsed Doppler

		MI	TIS		TIB	TIC		
Index Label			Scan	Non-Scan		Non-Scan		
				A _{aprt} ≤1	A _{aprt} >1			
Maximum Index Value		1.10	0.91	(c)	0.10	3.33	(b)	
Assoc. Acoustic Parameter	P _{r.3} (MPa)	1.75	-	-	-	-		
	W _o (mW)	-	173	(c)	-	79.4	(b)	
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)	-	-	-	82.6	-		
	z ₁ (cm)	-	-	-	3.50	-		
	z _{bp} (cm)	-	-	-	3.13	-		
	z _{sp} (cm)	4.00	-	-	-	0.60		
	d _{eq} (z _{sp}) (cm)	-	-	-	-	0.19		
	f _c (MHz)	2.55	2D: 2.82 PD: 2.55	(c)	2.54	2.53	(b)	
	Dim of A _{aprt}	X (cm)	-	2D: 5.27 PD: 1.73	(c)	2.64	0.33	(b)
		Y (cm)	-	1.30	(c)	1.30	1.30	(b)
Other Information	PD (μsec)	1.78	-	-	-	-		
	PRF (Hz)	999	-	-	-	-		
	P _r @PII _{max} (MPa)	2.39	-	-	-	-		
	d _{eq} @PII _{max} (cm)	-	-	-	-	0.19		
	Focal Length	FL _x (cm)	-	8.80	(c)	14.5	-	(b)
		FL _y (cm)	-	8.20	(c)	8.20	-	(b)
	I _{pa.3} @ MI _{max} (W/cm ²)	175	-	-	-	-		
Operating Control Conditions	Control 1	MI						
	Control 2		TIS_as					
	Control 3				TIS_bs			
	Control 4					TIB_bs		
	Control 5							
	Control 6							
	Control 7							

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

Control 1: PD mode, FZ 3, PRF 999

Control 2: 2D+PD mode, General Imaging, FZ 5, FR 21.74

Control 3: 2D+PD mode, General Imaging, FZ 7, FR 7.35

Control 4: PD mode, FZ 1, PRF 7000

Scanhead Model and Operating Mode: C7-4, 2D & 2D+M

		MI	TIS		TIB	TIC	
Index Label			Scan	Non-Scan		Non-Scan	
				A _{aprt} ≤1	A _{aprt} >1		
Maximum Index Value		1.23	0.58	1.27	(c)	0.13	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	85.4					
	W _o (mW)		70.5	68.9		93.8	(b)
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)				(c)		
	z ₁ (cm)				(c)		
	z _{bp} (cm)				(c)		
	z _{sp} (cm)	2.90				2.80	
	d _{eq} (z _{sp}) (cm)					1.29	
	f _c (MHz)	3.86	2D: 4.19 M: 4.18	3.88	(c)	3.85	(b)
	Dim of A _{aprt}	X (cm)	2D: 4.20 M: 2.10	1.12	(c)	0.79	(b)
		Y (cm)		0.90	(c)	0.90	(b)
Other Information	PD (μsec)	0.46					
	PRF (Hz)	* 328					
	P _r @PII _{max} (MPa)	3.24					
	d _{eq} @PII _{max} (cm)					1.23	
	Focal Length	FL _x (cm)		14.5	6.80	(c)	(b)
		FL _y (cm)		3.80	3.80	(c)	(b)
Operating Control Conditions	I _{pa.3} @ MI _{max} (W/cm ²)	190					
	Control 1	MI				TIB_bs	
	Control 2		TIS_as				
	Control 3			Tis_as_U			
	Control 4						
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D+M mode, Penetration Imaging, FZ 3, FR 28.28

Control 2: 2D+M mode, Penetration Imaging, FZ 7, FR 25.94

Control 3: 2D+M mode, General Imaging, FZ 4, FR 25.94

Scanhead Model and Operating Mode: C7-4, 2D+Color, Triple, CPA & Triple CPA

		MI	TIS		TIB	TIC	
Index Label			Scan	Non-Scan		Non-Scan	
				A _{aprt} ≤1	A _{aprt} >1		
Maximum Index Value		1.53	2.64	0.56	(c)	1.45	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	2.86			-		
	W _o (mW)		270	32.7	77.3	(b)	
	min of [W ₃ (z ₁), I _{TA.3} (z ₁)] (mW)				(c)	-	
	z ₁ (cm)				(c)	-	
	z _{bp} (cm)				(c)	-	
	z _{sp} (cm)	2.60			2.80		
	d _{eq} (z _{sp}) (cm)				0.23		
	f _c (MHz)	3.50	2D: 4.67 CPA: 3.50	3.58	(c)	3.58	(b)
	Dim of A _{aprt}	X (cm)	2D: 4.20 CPA: 2.36	0.98	(c)	0.98	(b)
		Y (cm)		0.90	(c)	0.90	(b)
Other Information	PD (μsec)	0.81			-		
	PRF (Hz)	* 229			-		
	P _r @PII _{max} (MPa)	3.86			-		
	d _{eq} @PII _{max} (cm)				0.23		
	Focal Length	FL _x (cm)		8.80	(c)	-	(b)
		FL _y (cm)		3.80	(c)	-	(b)
Operating Control Conditions	I _{pa.3} @ MI _{max} (W/cm ²)	357		-	-	-	
	Control 1	MI					
	Control 2		TIS_as				
	Control 3			Tis_as_U			
	Control 4				TIB_bs		
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: CPA mode, General Imaging, FZ 2, FR 14.29

Control 2: 2D+ Color mode, General Imaging, FZ 5, FR 14.29

Control 3: CPA mode, General Imaging, FZ 6, FR 14.29

Control 4: Triple mode, Penetration Imaging, FZ 3, FR 2.95

Scanhead Model and Operating Mode: C7-4, Pulsed Doppler & 2D+Pulsed Doppler

		MI	TIS		TIB	TIC	
Index Label			Scan	Non-Scan		Non-Scan	
				A _{aprt} ≤1	A _{aprt} >1		
Maximum Index Value		1.01	0.84	1.19	(c)	1.93	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	1.91	-	-	-	-	
	W _o (mW)	-	58.7	69.6	-	31.0	(b)
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)	-	-	-	(c)	-	
	z ₁ (cm)	-	-	-	(c)	-	
	z _{bp} (cm)	-	-	-	(c)	-	
	z _{sp} (cm)	2.90	-	-	-	1.00	
	d _{eq} (z _{sp}) (cm)	-	-	-	-	0.31	
	f _c (MHz)	3.58	2D: 5.00 PD: 3.59	3.59	(c)	3.61	(b)
	Dim of A _{aprt}	X (cm)	- 2D: 4.20 PD: 1.31	1.31	(c)	0.39	(b)
		Y (cm)	- 0.90	0.90	(c)	0.90	(b)
Other Information	PD (μsec)	1.24	-	-	-	-	
	PRF (Hz)	1000	-	-	-	-	
	P _r @PII _{max} (MPa)	2.65	-	-	-	-	
	d _{eq} @PII _{max} (cm)	-	-	-	-	0.28	
	Focal Length	FL _x (cm)	- 6.80	6.80	(c)	-	(b)
		FL _y (cm)	- 3.80	3.80	(c)	-	(b)
Operating Control Conditions	I _{pa.3} @ MI _{max} (W/cm ²)	207	-	-	-	-	
	Control 1	MI					
	Control 2		TIS_as				
	Control 3			Tis_as_U			
	Control 4					TIB_bs	
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

Control 1: PD mode, FZ 3, PRF 1000

Control 2: 2D+PD mode, General Imaging, FZ 4, FR 45.45

Control 3: 2D+PD mode, General Imaging, FZ 4, FR 37.74

Control 4: PD mode, FZ 1, PRF 899

Scanhead Model and Operating Mode: C8-5, 2D & 2D+M

		TIS		TIB	TIC		
Index Label		MI	Scan	Non-Scan			
				A _{aprt} ≤1	A _{aprt} >1		
Maximum Index Value		1.37	0.58	0.38	(c)	0.10	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	3.40					
	W _o (mW)		40.9	23.6		29.1	(b)
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)				(c)		
	z ₁ (cm)				(c)		
	z _{bp} (cm)				(c)		
	z _{sp} (cm)	1.10				1.10	
	d _{eq} (z _{sp}) (cm)					0.30	
	f _c (MHz)	6.19	6.10	5.57	(c)	6.19	(b)
	Dim of A _{aprt}	X (cm)	2.24	1.12	(c)	0.35	(b)
		Y (cm)	0.42	0.42	(c)	0.42	(b)
Other Information	PD (μsec)	0.31					
	PRF (Hz)	* 34.6					
	P _r @PII _{max} (MPa)	4.08					
	d _{eq} @PII _{max} (cm)					0.30	
	Focal Length	F _L _x (cm)	2.10	7.00	(c)		(b)
		F _L _y (cm)	2.32	2.32	(c)		(b)
	I _{pa.3} @ MI _{max} (W/cm ²)	444					
Operating Control Conditions	Control 1	MI					
	Control 2		TIS_as				
	Control 3			Tis_as_U			
	Control 4					TIB_bs	
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D mode, General Imaging, FZ 3, FR 34.63

Control 2: 2D mode, General Imaging, FZ 3, FR 34.63

Control 3: 2D+M mode, General Imaging, FZ 8, FR 23.66

Control 4: 2D+M mode, General Imaging, FZ 2, FR 34.63

Scanhead Model and Operating Mode: C8-5, 2D+Color, Triple, CPA & Triple CPA

		MI	TIS		TIB	TIC	
Index Label			Scan	Non-Scan		Non-Scan	
				A _{aprt} ≤1	A _{aprt} >1		
Maximum Index Value		1.34	3.42	2.26	(c)	0.36	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	3.25			-		
	W _o (mW)		258	114	50.5	(b)	
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)				(c)	-	
	z ₁ (cm)				(c)	-	
	z _{bp} (cm)				(c)	-	
	z _{sp} (cm)	1.00			1.10		
	d _{eq} (z _{sp}) (cm)				0.54		
	f _c (MHz)	5.84	2D: 5.82 Col: 5.90	5.08	(c)	5.09	(b)
	Dim of A _{aprt}	X (cm)	2.24	1.12	(c)	1.12	(b)
		Y (cm)	0.42	0.42	(c)	0.42	(b)
Other Information	PD (μsec)	0.43			-		
	PRF (Hz)	* 126			-		
	P _r @PII _{max} (MPa)	4.02			-		
	d _{eq} @PII _{max} (cm)				0.54		
	Focal Length	FL _x (cm)	3.70	7.00	(c)	-	(b)
		FL _y (cm)	2.32	2.32	(c)	-	(b)
Operating Control Conditions	I _{pa.3} @ MI _{max} (W/cm ²)	550		-	-	-	
	Control 1	MI					
	Control 2		TIS_as				
	Control 3			Tis_as_U			
	Control 4				TIB_bs		
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D+color mode, General Imaging, FZ 2, FR 1.90

Control 2: 2D+color mode, General Imaging, FZ 5, FR 3.16

Control 3: Triple mode, Penetration Imaging, FZ 8, FR 1.51

Control 4: Triple CPA mode, General Imaging, FZ 8, FR 5.60

Scanhead Model and Operating Mode: C8-5, Pulsed Doppler & 2D+Pulsed Doppler

		MI	TIS		TIB	TIC	
Index Label			Scan	Non-Scan		Non-Scan	
				A _{aprt} ≤1	A _{aprt} >1		
Maximum Index Value		1.14	1.07	2.26	(c)	0.75	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	2.58				-	
	W _o (mW)	-	45.7	93.4		43.7	(b)
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)	-			(c)	-	
	z ₁ (cm)	-			(c)	-	
	z _{bp} (cm)	-			(c)	-	
	z _{sp} (cm)	1.10				0.90	
	d _{eq} (z _{sp}) (cm)	-				0.30	
	f _c (MHz)	5.12	2D: 5.76 PD: 5.08	5.08	(c)	5.13	(b)
	Dim of A _{aprt}	X (cm)	- 2D: 2.24 PD: 1.12	1.12	(c)	1.12	(b)
		Y (cm)	- 0.42	0.42	(c)	0.42	(b)
Other Information	PD (μsec)	0.62				-	
	PRF (Hz)	999				-	
	P _r @PII _{max} (MPa)	3.05				-	
	d _{eq} @PII _{max} (cm)	-				0.27	
	Focal Length	FL _x (cm)	- 7.00	7.00	(c)	-	(b)
		FL _y (cm)	- 2.32	2.32	(c)	-	(b)
Operating Control Conditions	I _{pa.3} @ MI _{max} (W/cm ²)	408	-	-	-	-	
	Control 1	MI					
	Control 2		TIS_as				
	Control 3			Tis_as_U			
	Control 4					TIB_bs	
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

Control 1: PD mode, FZ 2, PRF 999

Control 2: 2D+PD mode, General Imaging, FZ 8, FR 21.74

Control 3: PD mode, FZ 8, PRF 999

Control 4: PD mode, FZ 7, PRF 11000

Scanhead Model and Operating Mode: D2CW, CW

		MI	TIS		TIB	TIC	
Index Label			Scan	Non-Scan		Non-Scan	
				$A_{aprt} \leq 1$	$A_{aprt} > 1$		
Maximum Index Value		0.02	(a)	0.18	(c)	0.24	(b)
Assoc. Acoustic Parameter	$P_{r.3}$ (MPa)	0.03					
	W_o (mW)		(a)	19.3		19.3	(b)
	min of $[W_o(z_1), I_{TA.3}(z_1)]$ (mW)				(c)		
	z_1 (cm)				(c)		
	z_{bp} (cm)				(c)		
	z_{sp} (cm)	2.40				1.70	
	$d_{eq}(z_{sp})$ (cm)					0.53	
	f_c (MHz)	1.93	(a)	1.93	(c)	1.93	(b)
	Dim of A_{aprt}	X (cm)	(a)	0.90	(c)	0.90	(b)
		Y (cm)	(a)	0.65	(c)	0.65	(b)
Other Information	PD (μsec)	CW					
	PRF (Hz)	CW					
	$P_r @ PII_{max}$ (MPa)	0.05					
	$d_{eq} @ PII_{max}$ (cm)					0.50	
	Focal Length	FL_x (cm)	(a)	4.00	(c)		(b)
		FL_y (cm)	(a)	4.00	(c)		(b)
	$I_{pa.3} @ MI_{max}$ (W/cm ²)	0.02					
Operating Control Conditions	Control 1	MI		TIS_as		TIB_bs	
	Control 2						
	Control 3						
	Control 4						
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

Control 1: Set output to maximum

Scanhead Model and Operating Mode: D5CW, CW

		MI	TIS		TIB	TIC	
Index Label			Scan	Non-Scan		Non-Scan	
				$A_{aprt} \leq 1$	$A_{aprt} > 1$		
Maximum Index Value		0.02		0.11	(c)	0.38	(b)
Assoc. Acoustic Parameter	$P_{r,3}$ (MPa)	0.05	(a)				
	W_o (mW)			6.35		6.35	(b)
	min of $[W_o(z_1), I_{TA,3}(z_1)]$ (mW)		(a)		(c)		
	z_1 (cm)				(c)		
	z_{bp} (cm)				(c)		
	z_{sp} (cm)	1.20				1.20	
	$d_{eq}(z_{sp})$ (cm)					0.29	
	f_c (MHz)	3.85		3.85	(c)	3.85	(b)
Dim of A_{aprt}	X (cm)		(a)	0.90	(c)	0.90	(b)
	Y (cm)		(a)	0.65	(c)	0.65	(b)
Other Information	PD (μ sec)	CW	(a)				
	PRF (Hz)	CW					
	$P_r @ PII_{max}$ (MPa)	0.06					
	$d_{eq} @ PII_{max}$ (cm)					0.29	
	Focal Length	FL_x (cm)		3.50	(c)		(b)
		FL_y (cm)	(a)	3.50	(c)		(b)
$I_{pa,3} @ MI_{max}$ (W/cm^2)		0.07	(a)				
Operating Control Conditions	Control 1	MI		Tis_as_U		TIB_bs	
	Control 2						
	Control 3						
	Control 4						
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

Control 1: Set output to maximum

Scanhead Model and Operating Mode: C9-5, 2D & 2D+M

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan	Non-Scan		
Maximum Index Value		1.58	1.34	1.27	(c)	0.17	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	3.57					
	W _o (mW)		107	62.4		107	(b)
	min of [W _o (z ₁), I _{TA.3(z₁)}] (mW)				(c)		
	z ₁ (cm)				(c)		
	z _{bp} (cm)				(c)		
	z _{sp} (cm)	1.40				1.70	
	d _{eq(z_{sp})} (cm)					0.58	
	f _c (MHz)	5.10	4.99	4.90	(c)	4.99	(b)
	Dim of A _{aprt}	X (cm)	2D: 2.85 M: 0.67	1.02	(c)	0.67	(b)
		Y (cm)		0.40	(c)	0.40	(b)
Other Information	PD (μsec)	0.40					
	PRF (Hz)	* 36.9					
	P _r @PII _{max} (MPa)	4.30					
	d _{eq@PII_{max}} (cm)					0.56	
	Focal Length	F _L _x (cm)	2.80	5.80	(c)		(b)
		F _L _y (cm)	1.70	1.70	(c)		(b)
Operating Control Conditions	I _{pa.3} @ MI _{max} (W/cm ²)	391					
	Control 1	MI					
	Control 2		TIS_as			TIB_bs	
	Control 3			Tis_as_U			
	Control 4						
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D mode, Penetration Imaging, FZ 4, FR 36.94

Control 2: 2D+M mode, Penetration Imaging, FZ 5, FR 36.36

Control 3: 2D+M mode, Penetration Imaging, FZ 8, FR 26.52

Scanhead Model and Operating Mode: C9-5, 2D+Color, Triple, CPA & Triple CPA

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan			
				A _{aprt} ≤1	A _{aprt} >1		
Maximum Index Value		1.28	1.94	2.23	(c)	1.80	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	2.85					
	W _o (mW)		134	136		90.1	(b)
	min of [W _o (z ₁), I _{TA.3(z₁)}] (mW)				(c)		
	z ₁ (cm)				(c)		
	z _{bp} (cm)				(c)		
	z _{sp} (cm)	1.20				1.50	
	d _{eq} (z _{sp}) (cm)					1.01	
	f _c (MHz)	4.96	2D: 5.62 CPA: 4.85	4.87	(c)	4.89	(b)
	Dim of A _{aprt}	X (cm)	2D: 2.35 CPA: 2.67	1.02	(c)	1.02	(b)
		Y (cm)		0.40	0.40	0.40	(b)
Other Information	PD (μsec)	0.75					
	PRF (Hz)	* 999					
	P _r @PII _{max} (MPa)	3.50					
	d _{eq} @PII _{max} (cm)					1.37	
	Focal Length	FL _x (cm)		5.80	(c)		(b)
		FL _y (cm)		1.70	(c)		(b)
Operating Control Conditions	I _{pa.3} @ MI _{max} (W/cm ²)	539					
	Control 1	MI					
	Control 2		TIS_as				
	Control 3			Tis_as_U			
	Control 4					TIB_bs	
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: Triple mode, , Penetration Imaging, FZ 3, FR 0.83

Control 2: CPA mode, General Imaging, FZ 8, FR 4.42

Control 3: Triple mode, Penetration Imaging, FZ 8, FR 1.51

Control 4: Triple mode, Penetration Imaging, FZ 8, FR 4.53

Scanhead Model and Operating Mode: C9-5, Pulsed Doppler & 2D+Pulsed Doppler

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan		Non-Scan	
				A _{aprt} ≤1	A _{aprt} >1		
Maximum Index Value		1.28	0.95	2.23	(c)	1.93	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	2.85					
	W _o (mW)		43.2	96.3		43.2	(b)
	min of [W _o (z ₁), I _{TA.3(z₁)}] (mW)				(c)		
	z ₁ (cm)				(c)		
	z _{bp} (cm)				(c)		
	z _{sp} (cm)	1.20				1.50	
	d _{eq} (z _{sp}) (cm)					0.40	
	f _c (MHz)	4.96	2D: 5.56 PD: 4.91	4.87	(c)	4.91	(b)
	Dim of A _{aprt}	X (cm)	2D: 3.20 PD: 1.02	1.02	(c)	1.02	(b)
		Y (cm)	0.40	0.40	(c)	0.40	(b)
Other Information	PD (μsec)	0.75					
	PRF (Hz)	999					
	P _r @PII _{max} (MPa)	3.50					
	d _{eq} @PII _{max} (cm)					0.35	
	Focal Length	FL _x (cm)	5.80	5.80	(c)		(b)
		FL _y (cm)	1.70	1.70	(c)		(b)
	I _{pa.3} @ MI _{max} (W/cm ²)	539					
Operating Control Conditions	Control 1	MI					
	Control 2		TIS_as				
	Control 3			Tis_as_U			
	Control 4					TIB_bs	
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

Control 1: PD mode, FZ 3, PRF 999

Control 2: 2D+PD mode, General Imaging, FZ 8, FR 29.85

Control 3: PD mode, FZ 8, PRF 999

Control 4: 2D+PD mode, General Imaging , FZ 8, FR 29.85

Scanhead Model and Operating Mode: L12-5, 2D & 2D+M

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan			
				A _{aprt} ≤1	A _{aprt} >1		
Maximum Index Value		0.95	0.41	0.24	(c)	0.07	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	2.27					
	W _o (mW)		27.1	17.2		12.8	(b)
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)				(c)		
	z ₁ (cm)				(c)		
	z _{bp} (cm)				(c)		
	z _{sp} (cm)	1.20				1.00	
	d _{eq} (z _{sp}) (cm)					0.05	
	f _c (MHz)	5.75	2D: 5.71 M: 5.70	5.72	(c)	5.90	(b)
	Dim of A _{aprt}	X (cm)	2D: 3.20 M: 1.28	1.28	(c)	0.76	(b)
		Y (cm)		0.40	0.40	0.40	(b)
Other Information	PD (μsec)	0.27					
	PRF (Hz)	* 30.9					
	P _r @PII _{max} (MPa)	2.77					
	d _{eq} @PII _{max} (cm)					0.05	
	Focal Length	FL _x (cm)		6.00	(c)		(b)
		FL _y (cm)		2.25	(c)		(b)
Operating Control Conditions	I _{pa.3} @ MI _{max} (W/cm ²)	295					
	Control 1	MI					
	Control 2		TIS_as	Tis_as_U			
	Control 3					TIB_bs	
	Control 4						
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D mode, Penetration Imaging, FZ 3, FR 30.85

Control 2: 2D+M mode, Penetration Imaging, FZ 6, FR 34.90

Control 3: 2D+M mode, Penetration Imaging, FZ 3, FR 40.52

Scanhead Model and Operating Mode: L12-5, 2D+Color, Triple, CPA & Triple CPA

Index Label		MI	TIS		TIB	TIC		
			Scan	Non-Scan				
				A _{aprt} ≤1	A _{aprt} >1			
Maximum Index Value		1.13	0.81	2.57	(c)	0.97	(b)	
Assoc. Acoustic Parameter	P _{r.3} (MPa)	2.87				-		
	W _o (mW)		32.9	99.5		43.9	(b)	
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)				(c)	-		
	z ₁ (cm)				(c)	-		
	z _{bp} (cm)				(c)	-		
	z _{sp} (cm)	1.20				1.40		
	d _{eq} (z _{sp}) (cm)					0.33		
	f _c (MHz)	6.43	2D: 6.06 PD: 5.58 Color: 5.58	5.52	(c)	5.58	(b)	
	Dim of A _{aprt}	X (cm)		2D: 2.84 PD: 1.28 Color: 3.82	1.28	(c)	1.28	(b)
		Y (cm)		0.40	0.40	(c)	0.40	(b)
Other Information	PD (μsec)	0.56				-		
	PRF (Hz)	* 37.1				-		
	P _r @PII _{max} (MPa)	3.64				-		
	d _{eq} @PII _{max} (cm)					0.22		
	Focal Length	F _L _x (cm)		3.60	6.00	(c)	-	(b)
		F _L _y (cm)		2.25	2.25	(c)	-	(b)
I _{pa.3} @ MI _{max} (W/cm ²)		367		-	-	-		
Operating Control Conditions	Control 1	MI						
	Control 2		TIS_as			TIB_bs		
	Control 3			Tis_as_U				
	Control 4							
	Control 5							
	Control 6							
	Control 7							

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D+Color mode, General Imaging, FZ 3, FR 2.32

Control 2: Triple mode, Penetration Imaging, FZ 6, FR 3.75

Control 3: Triple mode, Penetration Imaging, FZ 4, FR 1.51

Scanhead Model and Operating Mode: L12-5, Pulsed Doppler & 2D+Pulsed Doppler

Index Label		MI	TIS		TIB	TIC		
			Scan	Non-Scan				
				A _{aprt} ≤1	A _{aprt} >1			
Maximum Index Value		1.09	0.95	2.57	(c)	1.83	(b)	
Assoc. Acoustic Parameter	P _{r.3} (MPa)	2.57	-		-	-		
	W _o (mW)	-	38.1	97.8	-	32.9	(b)	
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)	-	-		(c)	-		
	z ₁ (cm)	-	-		(c)	-		
	z _{bp} (cm)	-	-		(c)	-		
	z _{sp} (cm)	0.90	-			1.10		
	d _{eq} (z _{sp}) (cm)	-	-			0.31		
	f _c (MHz)	5.50	2D: 5.97 PD: 5.54	5.52	(c)	5.61	(b)	
	Dim of A _{aprt}	X (cm)	-	2D: 3.84 PD: 1.28	1.28	(c)	1.28	(b)
		Y (cm)	-	2D: 0.40 PD: 0.40	0.40	(c)	0.40	(b)
Other Information	PD (μsec)	0.56	-			-		
	PRF (Hz)	999	-			-		
	P _r @PII _{max} (MPa)	3.04	-			-		
	d _{eq} @PII _{max} (cm)	-	-			0.19		
	Focal Length	FL _x (cm)	-	6.00	6.00	(c)	-	(b)
		FL _y (cm)	-	2.25	2.25	(c)	-	(b)
Operating Control Conditions	I _{pa.3} @ MI _{max} (W/cm ²)	385	-	-	-	-		
	Control 1	MI						
	Control 2		TIS_as					
	Control 3			Tis_as_U				
	Control 4					TIB_bs		
	Control 5							
	Control 6							
	Control 7							

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

Control 1: PD mode, FZ 2, PRF 999

Control 2: 2D+PD mode, General Imaging, FZ 8, FR 21.74

Control 3: PD mode, FZ 8, PRF 999

Control 4: PD mode, FZ 7, PRF 11000

Scanhead Model and Operating Mode: L12-5 50, 2D & 2D+M

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan			
				$A_{aprt} \leq 1$	$A_{aprt} > 1$		
Maximum Index Value		1.47	0.38	0.24	(c)	0.06	(b)
Assoc. Acoustic Parameter	$P_{r.3}$ (MPa)	3.53					
	W_o (mW)		32.0	17.0		14.9	(b)
	min of $[W_o(z_1), I_{TA.3}(z_1)]$ (mW)				(c)		
	z_1 (cm)				(c)		
	z_{bp} (cm)				(c)		
	z_{sp} (cm)	0.90				1.10	
	$d_{eq}(z_{sp})$ (cm)					0.36	
	f_c (MHz)	5.75	5.64	5.72	(c)	5.75	(b)
	Dim of A_{aprt}	X (cm)	2D:3.84 M:1.28	1.28	(c)	0.76	(b)
		Y (cm)		0.40	(c)	0.40	(b)
Other Information	PD	(μ sec)	0.145				
	PRF	(Hz)	* 25.1				
	$P_r @ PII_{max}$	(MPa)	3.95				
	$d_{eq} @ PII_{max}$	(cm)				0.35	
	Focal Length	FL_x (cm)		3.90	6.00	(c)	(b)
		FL_y (cm)		2.25	2.25	(c)	(b)
	$I_{pa.3} @ MI_{max}$	(W/cm ²)	585				
Operating Control Conditions	Control 1	MI					
	Control 2		TIS_as				
	Control 3			Tis_as_U			
	Control 4					TIB_bs	
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D mode, General Imaging, FZ 2, FR 25.07

Control 2: 2D+M mode, Penetration Imaging, FZ 6, FR 26.57

Control 3: 2D+M mode, General Imaging, FZ 8, FR 32.8

Control 4: 2D+M mode, Penetration Imaging, FZ 3, FR 30.85

Scanhead Model and Operating Mode: L12-5 50, 2D+Color, Triple, CPA & Triple CPA

Index Label		MI	TIS		TIB	TIC		
			Scan	Non-Scan				
				A _{aprt} ≤1	A _{aprt} >1			
Maximum Index Value		1.12	1.40	0.87	(c)	0.97	(b)	
Assoc. Acoustic Parameter	P _{r.3} (MPa)	2.53						
	W _o (mW)		62.1	43.3		49.7	(b)	
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)				(c)			
	z ₁ (cm)				(c)			
	z _{bp} (cm)				(c)			
	z _{sp} (cm)	1.40				1.20		
	d _{eq} (z _{sp}) (cm)					0.57		
	f _c (MHz)	5.12	2D:6.19 PD:5.55 CPA 5.55	5.17	(c)	5.55	(b)	
	Dim of A _{aprt}	X (cm)		2D: 2.84 PD: 1.28 CPA: 3.34	1.28	(c)	1.28	(b)
		Y (cm)		0.40	0.40	(c)	0.40	(b)
Other Information	PD (μsec)	0.72						
	PRF (Hz)	* 187						
	P _r @PII _{max} (MPa)	3.13						
	d _{eq} @PII _{max} (cm)					0.48		
	Focal Length	F _L _x (cm)		3.90	6.50	(c)	(b)	
		F _L _y (cm)		2.25	1.80	(c)	(b)	
I _{pa.3} @ MI _{max} (W/cm ²)		285						
Operating Control Conditions	Control 1	MI						
	Control 2		TIS_as					
	Control 3			Tis_as_U				
	Control 4					TIB_bs		
	Control 5							
	Control 6							

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: CPA mode, General Imaging, FZ 3, FR 11.66

Control 2: Triple CPA mode, General Imaging, FZ 6 FR 4.43

Control 3: Triple CPA mode, General Imaging, FZ 8, FR 4.2

Control 4: Triple mode, Penetration Imaging, FZ 6, FR 3.75

Scanhead Model and Operating Mode: L12-5 50, Pulsed Doppler & 2D+Pulsed Doppler

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan			
				A _{aprt} ≤1	A _{aprt} >1		
Maximum Index Value		1.12	1.11	1.54	(c)	1.77	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	2.53					
	W _o (mW)		43.8	64.3		44.7	(b)
	min of [W _o (z ₁), I _{TA.3(z₁)}] (mW)				(c)		
	z ₁ (cm)				(c)		
	z _{bp} (cm)				(c)		
	z _{sp} (cm)	1.40				1.20	
	d _{eq} (z _{sp}) (cm)					0.28	
	f _c (MHz)	5.12	2D: 6.19 PD: 5.55	5.12	(c)	5.60	(b)
	Dim of A _{aprt}	X (cm)	2D: 3.84 PD: 1.28	1.28	(c)	1.28	(b)
		Y (cm)		0.40	0.40	0.40	(b)
Other Information	PD (μsec)	0.72					
	PRF (Hz)	* 999					
	P _r @PII _{max} (MPa)	3.13					
	d _{eq} @PII _{max} (cm)					0.17	
	Focal Length	FL _x (cm)		3.90	6.50	(c)	(b)
		FL _y (cm)		2.25	1.80	(c)	(b)
Operating Control Conditions	I _{pa.3} @ MI _{max} (W/cm ²)	285					
	Control 1	MI					
	Control 2		TIS_as				
	Control 3			Tis_as_U			
	Control 4					TIB_bs	
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D+PD mode, General Imaging, FZ 3, PRF 999, FR 7.46

Control 2: 2D+PD mode, General Imaging, FZ 6, PRF 3999, FR 28.57

Control 3: PD mode, FZ 7, PRF 14999

Control 4: PD mode, FZ 6, PRF 11000

Scanhead Model and Operating Mode: C8-4v, 2D & 2D+M

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan			
				A _{aprt} ≤1	A _{aprt} >1		
Maximum Index Value		1.44	1.96	0.20	(c)	0.18	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	3.16					
	W _o (mW)		201	8.92		173	(b)
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)				(c)		
	z ₁ (cm)				(c)		
	z _{bp} (cm)				(c)		
	z _{sp} (cm)	1.40				1.30	
	d _{eq} (z _{sp}) (cm)					0.50	
	f _c (MHz)	4.84	4.84	5.32	(c)	4.91	(b)
	Dim of A _{aprt}	X (cm)	2.69	1.34	(c)	0.38	(b)
		Y (cm)	0.50	0.50	(c)	0.50	(b)
Other Information	PD (μsec)	0.28					
	PRF (Hz)	* 35.8					
	P _r @P _{II} _{max} (MPa)	3.83					
	d _{eq} @P _{II} _{max} (cm)					0.48	
	Focal Length	FL _x (cm)	2.10	7.00	(c)		(b)
		FL _y (cm)	3.50	3.50	(c)		(b)
	I _{pa.3} @ MI _{max} (W/cm ²)	378					
Operating Control Conditions	Control 1	MI	TIS_as				
	Control 2			Tis_as_U			
	Control 3					TIB_bs	
	Control 4						
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D mode, Penetration Imaging, FZ 3, FR 35.85

Control 2: 2D+M mode, General Imaging, FZ 8, FR 24.09

Control 3: 2D+M mode, Penetration Imaging, FZ 3, FR 35.85

Scanhead Model and Operating Mode: C8-4v, 2D+Color, Triple, CPA & Triple CPA

Index Label		MI	TIS		TIB	TIC		
			Scan	Non-Scan				
				A _{aprt} ≤1	A _{aprt} >1			
Maximum Index Value		0.96	4.83	1.47	(c)	2.52	(b)	
Assoc. Acoustic Parameter	P _{r.3} (MPa)	2.16				-		
	W _o (mW)		215	45.7		192	(b)	
	min of [W _o (z ₁), I _{TA.3(z₁)}] (mW)				(c)	-		
	z ₁ (cm)				(c)	-		
	z _{bp} (cm)				(c)	-		
	z _{sp} (cm)	1.40				1.40		
	d _{eq} (z _{sp}) (cm)					0.20		
	f _c (MHz)	5.09	2D: 5.80 CAP: 5.09	5.08	(c)	5.11	(b)	
	Dim of A _{aprt}	X (cm)	2D: 2.69 CAP: 2.00	1.34	(c)	0.59	(b)	
		Y (cm)		0.50	(c)	0.50	(b)	
Other Information	PD (μsec)	0.69				-		
	PRF (Hz)	* 31.7				-		
	P _r @PII _{max} (MPa)	2.60				-		
	d _{eq} @PII _{max} (cm)					0.19		
	Focal Length	FL _x (cm)		3.70	7.00	(c)	-	(b)
		FL _y (cm)		3.50	3.50	(c)	-	(b)
Operating Control Conditions	I _{pa.3} @ MI _{max} (W/cm ²)	238		-	-	-		
	Control 1	MI						
	Control 2		TIS_as					
	Control 3			Tis_as_U				
	Control 4					TIB_bs		
	Control 5							
	Control 6							
	Control 7							

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D+color mode, General Imaging, FZ 3, FR 1.98

Control 2: CPA mode, General Imaging, FZ 5, FR 13.08

Control 3: Triple mode, Penetration Imaging, FZ 8, FR 1.51

Control 4: Triple mode, Penetration Imaging, FZ 3, FR 4.53

Scanhead Model and Operating Mode: C8-4v, Pulsed Doppler & 2D+Pulsed Doppler

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan			
				A _{aprt} ≤1	A _{aprt} >1		
Maximum Index Value		0.96	4.61	1.74	(c)	3.08	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	2.16	-	-	-	-	
	W _o (mW)	-	192	53.8	-	124	(b)
	min of [W _o (z ₁), I _{TA.3(z₁)}] (mW)	-	-	-	(c)	-	
	z ₁ (cm)	-	-	-	(c)	-	
	z _{bp} (cm)	-	-	-	(c)	-	
	z _{sp} (cm)	1.40	-	-	-	2.00	
	d _{eq} (z _{sp}) (cm)	-	-	-	-	0.22	
	f _c (MHz)	5.09	2D: 5.77 PD: 5.09	5.09	(c)	5.13	(b)
	Dim of A _{aprt}	X (cm)	- 2D: 2.69 PD: 1.34	1.34	(c)	0.80	(b)
		Y (cm)	- 0.50	0.50	(c)	0.50	(b)
Other Information	PD (μsec)	0.69	-	-	-	-	
	PRF (Hz)	999	-	-	-	-	
	P _r @PII _{max} (MPa)	2.60	-	-	-	-	
	d _{eq} @PII _{max} (cm)	-	-	-	-	0.21	
	Focal Length	FL _x (cm)	- 5.70	5.70	(c)	-	(b)
		FL _y (cm)	- 3.50	3.50	(c)	-	(b)
	I _{pa.3} @ MI _{max} (W/cm ²)	238	-	-	-	-	
Operating Control Conditions	Control 1	MI					
	Control 2		TIS_as	Tis_as_U			
	Control 3					TIB_bs	
	Control 4						
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

Control 1: PD mode, FZ 3, PRF 999

Control 2: 2D+PD mode, General Imaging, FZ 6, FR 29.85

Control 3: 2D+PD mode, General Imaging, FZ 4, FR 37.31

Scanhead Model and Operating Mode: CL15-7, 2D & 2D+M

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan			
				A _{aprt} ≤1	A _{aprt} >1		
Maximum Index Value		1.25	0.45	0.10	(c)	0.07	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	2.81					
	W _o (mW)		34.8	6.96		18.5	(b)
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)				(c)		
	z ₁ (cm)				(c)		
	z _{bp} (cm)				(c)		
	z _{sp} (cm)	0.70				0.60	
	d _{eq} (z _{sp}) (cm)					0.30	
	f _c (MHz)	5.05	5.03	6.89	(c)	6.82	(b)
	Dim of A _{aprt}	X (cm)	2.56	1.28	(c)	0.52	(b)
		Y (cm)	0.30	0.30	(c)	0.30	(b)
Other Information	PD (μsec)	0.38					
	PRF (Hz)	* 28.7					
	P _r @PII _{max} (MPa)	3.07					
	d _{eq} @PII _{max} (cm)					0.30	
	Focal Length	F _L _x (cm)	2.00	3.80	(c)		(b)
		F _L _y (cm)	0.75	0.75	(c)		(b)
	I _{pa.3} @ MI _{max} (W/cm ²)	342					
Operating Control Conditions	Control 1	MI					
	Control 2		TIS_as				
	Control 3			Tis_as_U			
	Control 4					TIB_bs	
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D mode, General Imaging, FZ 4, FR 28.71

Control 2: 2D mode, General Imaging, FZ 5, FR 55.34

Control 3: 2D+M mode, General Imaging, FZ 8, FR 43.94

Control 4: 2D+M mode, General Imaging, FZ 3, FR 60.0

Scanhead Model and Operating Mode: CL15-7, 2D+Color, Triple, CPA & Triple CPA

Index Label		MI	TIS		TIB	TIC		
			Scan	Non-Scan				
				A _{aprt} ≤1	A _{aprt} >1			
Maximum Index Value		1.00	0.87	1.03	(c)	1.05	(b)	
Assoc. Acoustic Parameter	P _{r.3} (MPa)	2.48				-		
	W _o (mW)		41.6	41.3		39.5	(b)	
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)				(c)	-		
	z ₁ (cm)				(c)	-		
	z _{bp} (cm)				(c)	-		
	z _{sp} (cm)	0.80				0.60		
	d _{eq} (z _{sp}) (cm)					0.25		
	f _c (MHz)	6.16	2D: 8.45 PD: 6.15 CPA: 6.15	6.10	(c)	6.20	(b)	
	Dim of A _{aprt}	X (cm)		2D: 2.56 PD: 1.08 CPA: 2.56	1.28	(c)	1.08	(b)
		Y (cm)		0.30	0.30	(c)	0.30	(b)
Other Information	PD (μsec)	0.57				-		
	PRF (Hz)	* 123				-		
	P _r @PII _{max} (MPa)	2.80				-		
	d _{eq} @PII _{max} (cm)					0.17		
	Focal Length	F _L _x (cm)		3.00	3.80	(c)	-	(b)
		F _L _y (cm)		0.75	0.75	(c)	-	(b)
I _{pa.3} @ MI _{max} (W/cm ²)		313		-	-	-		
Operating Control Conditions	Control 1	MI						
	Control 2		TIS_as					
	Control 3			Tis_as_U				
	Control 4					TIB_bs		
	Control 5							
	Control 6							

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D+color mode Resolution Imaging, FZ 4, FR 7.71

Control 2: Triple CPA mode, Resolution Imaging ,FZ 7, FR 7.07

Control 3: Triple mode, General Imaging, FZ 8, FR 1.51

Control 4: Triple mode, General Imaging, FZ 5, FR 5.99

**Scanhead Model and Operating Mode: CL15-7, Pulsed Doppler
& 2D+Pulsed Doppler**

Index Label	MI	TIS		TIB		TIC	
		Scan	Non-Scan		Non-Scan		
			A _{aprt} ≤1	A _{aprt} >1			
Maximum Index Value	1.00	1.00	1.03	(c)	1.87	(b)	
Assoc. Acoustic Parameter	P _{r.3} (MPa)	2.48	-		-		
	W _o (mW)	-	34.0	35.6	33.6	(b)	
	min of [W _o (z ₁), I _{T A.3(z₁)}] (mW)	-	-		(c)	-	
	z ₁ (cm)	-	-		(c)	-	
	z _{bp} (cm)	-	-		-		
	z _{sp} (cm)	0.80	-		-	0.60	
	d _{eq} (z _{sp}) (cm)	-	-		-	0.26	
	f _c (MHz)	6.16	2D: 8.39 PD: 6.12	6.10	(c)	6.13	
Dim of A _{aprt}	X (cm)	-	2D: 2.56 PD: 1.28	1.28	(c)	1.08	
	Y (cm)	-	0.30	0.30	(c)	0.30	
Other Information	PD (μsec)	0.57	-		-	-	
	PRF (Hz)	999	-		-	-	
	P _r @P _{II} _{max} (MPa)	2.80	-		-	-	
	d _{eq} @P _{II} _{max} (cm)	-	-		-	0.22	
	Focal Length	FL _x (cm)	-	3.80	(c)	-	
		FL _y (cm)	-	0.75	(c)	-	
	I _{pa.3} @ MI _{max} (W/cm ²)	313	-	-	-	-	
Operating Control Conditions	Control 1	MI					
	Control 2		TIS_as				
	Control 3			Tis_as_U			
	Control 4				TIB_bs		
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

Control 1: PD mode, FZ 4, PRF 999

Control 2: 2D+PD mode, Resolution Imaging, FZ 8, FR 42.25

Control 3: PD mode, FZ 8, PRF 999

Control 4: 2D+PD mode, Resolution Imaging, FZ 7, FR 42.25

Scanhead Model and Operating Mode: P4-2, 2D & 2D+M

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan	Non-Scan		
Maximum Index Value		0.96	2.25	(b)	0.04	0.30	5.71
Assoc. Acoustic Parameter	P _{r.3} (MPa)	1.42					
	W _o (mW)		174	(b)		310	310
	min of [W _o (z ₁), I _{TA.3(z₁)}] (mW)				3.39		
	z ₁ (cm)				3.50		
	z _{bp} (cm)				2.78		
	z _{sp} (cm)	2.00				5.80	
	d _{eq} (z _{sp}) (cm)					1.21	
	f _c (MHz)	2.18	2.21	(b)	2.76	2.17	2.17
	Dim of A _{aprt}	X (cm)		1.50	(b)	1.92	1.92
		Y (cm)		1.30	(b)	1.40	1.30
Other Information	PD (μsec)	0.90					
	PRF (Hz)	* 43.0					
	P _r @PII _{max} (MPa)	1.44					
	d _{eq} @PII _{max} (cm)					1.16	
	Focal Length	F _L _x (cm)		8.00	(b)	10.0	10.0
		F _L _y (cm)		10.7	(b)	8.50	10.7
Operating Control Conditions	I _{pa.3} @ MI _{max} (W/cm ²)	77.5					
	Control 1	MI					
	Control 2		TIS_as				
	Control 3				TIS_bs		
	Control 4					TIB_bs	
	Control 5					TIC_as	
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D mode, Resolution Imaging, FZ 2, FR 43.05

Control 2: 2D mode, Penetration Imaging, FZ 4, FR 59.87

Control 3: 2D+M mode, General Imaging, FZ 5, FR 41.22

Control 4: 2D+M mode, General Imaging, FZ 4, FR 48.25

Scanhead Model and Operating Mode: P4-2, 2D+Color, Triple, CPA & Triple CPA,

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan	Non-Scan		
Maximum Index Value		0.49	0.52	(b)	0.21	1.15	1.22
Assoc. Acoustic Parameter	P _{r.3} (MPa)	0.77			-		
	W _o (mW)		86.1	(b)	49.5	87.1	
	min of [W _o (z ₁), I _{TA.3(z₁)}] (mW)				17.8	-	
	z ₁ (cm)				3.30	-	
	z _{bp} (cm)				2.78	-	
	z _{sp} (cm)	5.90			3.00		
	d _{eq} (z _{sp}) (cm)				0.95		
	f _c (MHz)	2.48	2D: 2.90 Col: 2.48	(b)	2.50	2.07 2D: 2.37 PD: 2.41 Col: 2.41	
	Dim of A _{aprt}	X (cm)	1.14	(b)	1.92	0.72	
		Y (cm)	1.40	(b)	1.40	1.30	
Other Information	PD (μsec)	2.20			-		
	PRF (Hz)	* 81.6			-		
	P _r @PII _{max} (MPa)	1.20			-		
	d _{eq} @PII _{max} (cm)				0.92		
	Focal Length	FL _x (cm)	6.00	(b)	10.0	-	
		FL _y (cm)	8.50	(b)	8.50	-	
Operating Control Conditions	I _{pa.3} @ MI _{max} (W/cm ²)	37.8		-	-	-	
	Control 1	MI					
	Control 2		TIS_as				
	Control 3			TIS_bs			
	Control 4				TIB_bs		
	Control 5					TIC_as	
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D+color mode, General Imaging, FZ 3, FR 5.10

Control 2: CPA mode, General Imaging, FZ 6, FR 5.10

Control 3: Triple mode, Penetration Imaging, FZ 4, FR 4.97

Control 4: Triple mode, General Imaging, FZ 5, FR 2.84

Control 5: 2D+color mode, General Imaging, FZ 8, FR 2.84

Scanhead Model and Operating Mode: P4-2, Pulsed Doppler & 2D+Pulsed Doppler

Index Label		MI	TIS			TIB	TIC	
			Scan	Non-Scan		Non-Scan		
				A _{aprt} ≤1	A _{aprt} >1			
Maximum Index Value		0.48	0.36	(b)	0.99	1.90	1.25	
Assoc. Acoustic Parameter	P _{r.3} (MPa)	0.75	-	-	-	-		
	W _o (mW)	-	89.1	(b)	-	43.7	89.1	
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)	-	-	-	83.3	-		
	z ₁ (cm)	-	-	-	3.30	-		
	z _{bp} (cm)	-	-	-	2.78	-		
	z _{sp} (cm)	5.90	-	-	-	5.40		
	d _{eq} (z _{sp}) (cm)	-	-	-	-	0.34		
	f _c (MHz)	2.49	2D: 2.90 PD: 2.49	(b)	2.50	2.49	2D: 2.37 PD: 2.41	
Other Information	Dim of A _{aprt}	X (cm)	-	1.14	(b)	1.92	1.56	
		Y (cm)	-	1.40	(b)	1.40	1.40	
	PD (μsec)	1.79	-	-	-	-		
	PRF (Hz)	999	-	-	-	-		
	P _r @PII _{max} (MPa)	1.18	-	-	-	-		
	d _{eq} @PII _{max} (cm)	-	-	-	-	0.32		
Operating Control Conditions	Focal Length	FL _x (cm)	-	6.00	(b)	12.0	-	
		FL _y (cm)	-	8.50	(b)	8.50	-	
	I _{pa.3} @ MI _{max} (W/cm ²)	37.4	-	-	-	-		
	Control 1	MI						
	Control 2		TIS_as				TIC_as	
	Control 3				TIS_bs			
	Control 4					TIB_bs		

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

Control 1: PD mode, FZ 3, PRF 999

Control 2: 2D+PD mode, General Imaging, FZ 7, FR 54.05

Control 3: PD mode, FZ 5, PRF 8999

Control 4: PD mode, FZ 3, PRF 8999

Scanhead Model and Operating Mode: P4-2, CW

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan	Non-Scan		
Maximum Index Value		0.03	(a)	0.75	(b)	1.38	2.33
Assoc. Acoustic Parameter	P _{r.3} (MPa)	0.05					
	W _o (mW)		(a)	71.9		71.8	71.9
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)				(b)		
	z ₁ (cm)				(b)		
	z _{bp} (cm)				(b)		
	z _{sp} (cm)	3.20				1.10	
	d _{eq} (z _{sp}) (cm)					0.74	
	f _c (MHz)	2.20	(a)	2.20	(b)	2.20	2.20
	Dim of A _{aprt}	X (cm)	(a)	0.36	(b)	0.72	0.36
		Y (cm)	(a)	1.30	(b)	1.30	1.30
Other Information	PD (μsec)	CW					
	PRF (Hz)	CW					
	P _r @P _{II} _{max} (MPa)	0.09					
	d _{eq} @P _{II} _{max} (cm)					0.56	
	Focal Length	F _L _x (cm)	(a)	2.00	(b)		2.00
		F _L _y (cm)	(a)	10.7	(b)		10.7
Operating Control Conditions	I _{pa.3} @ MI _{max} (W/cm ²)	0.10					
	Control 1	MI					
	Control 2			TIS_as		TIC_as	
	Control 3					TIB_bs	
	Control 4						
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

Control 1: CW mode, FZ 7

Control 2: CW mode, FZ 1

Control 3: CW mode, FZ 2

Scanhead Model and Operating Mode: P5-3, 2D & 2D+M

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan			
				A _{aprt} ≤1	A _{aprt} >1		
Maximum Index Value		1.40	3.50	0.16	(c)	0.27	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	2.55					
	W _o (mW)		298	349		285	(b)
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)				(c)		
	z ₁ (cm)				(c)		
	z _{bp} (cm)				(c)		
	z _{sp} (cm)	1.60				3.60	
	d _{eq} (z _{sp}) (cm)					0.46	
	f _c (MHz)	3.30	3.09	3.11	(c)	3.11	(b)
	Dim of A _{aprt}	X (cm)	0.79	0.79	(c)	0.79	(b)
		Y (cm)	1.20	1.20	(c)	1.20	(b)
Other Information	PD (μsec)	0.33					
	PRF (Hz)	* 20.7					
	P _r @PII _{max} (MPa)	3.01					
	d _{eq} @PII _{max} (cm)					0.45	
	Focal Length	F _L _x (cm)	4.00	4.00	(c)		(b)
		F _L _y (cm)	7.00	7.00	(c)		(b)
	I _{pa.3} @ MI _{max} (W/cm ²)	298					
Operating Control Conditions	Control 1	MI					
	Control 2		TIS_as				
	Control 3			Tis_as_U			
	Control 4					TIB_bs	
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D mode, Resolution Imaging, FZ 1, FR 20.69

Control 2: 2D mode, General Imaging, FZ 3, FR 48.08

Control 3: 2D+M mode, Penetration Imaging, FZ 7, FR 48.08

Control 4: 2D+M mode, General Imaging, FZ 3, FR 48.08

Scanhead Model and Operating Mode: P5-3, 2D+Color, Triple, CPA & Triple CPA

Index Label	MI	TIS		TIB	TIC	
		Scan	Non-Scan			
			A _{aprt} ≤1	A _{aprt} >1		
Maximum Index Value	1.31	1.22	(c)	1.82	0.27 (b)	
Assoc. Acoustic Parameter	P _{r.3} (MPa)	2.29				
	W _o (mW)		157	(c)	285 (b)	
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)			124		
	z ₁ (cm)			1.90		
	z _{bp} (cm)			2.20		
	z _{sp} (cm)	3.70			5.30	
	d _{eq} (z _{sp}) (cm)				0.43	
	f _c (MHz)	3.06	2D: 3.30 Col: 3.06	(c)	M: 3.38 Col: 3.36	
	Dim of A _{aprt}	X (cm)	0.79	(c)	1.41	
		Y (cm)	1.20	(c)	1.20	
Other Information	PD (μsec)	1.79				
	PRF (Hz)	* 65.4				
	P _r @PII _{max} (MPa)	3.34				
	d _{eq} @PII _{max} (cm)				0.40	
	Focal Length	FL _x (cm)	4.00	(c)	16.00	
		FL _y (cm)	7.00	(c)	7.00	
Operating Control Conditions	I _{pa.3} @ MI _{max} (W/cm ²)	259				
	Control 1	MI				
	Control 2		TIS_as			
	Control 3			TIS_bs	TIB_bs	
	Control 4					
	Control 5					
	Control 6					
	Control 7					

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D+Color mode, General Imaging, FZ 2, FR 4.09

Control 2: Triple mode, Penetration Imaging, FZ 6, PRF 1546

Control 3: Triple mode, Penetration Imaging, FZ 6, PRF 2632

Scanhead Model and Operating Mode: P5-3, Pulsed Doppler & 2D+Pulsed Doppler

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan		Non-Scan	
				A _{aprt} ≤1	A _{aprt} >1		
Maximum Index Value		1.49	0.81	(c)	1.83	2.56	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	2.61					
	W _o (mW)		107	(c)		106	(b)
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)				127		
	z ₁ (cm)				1.80		
	z _{bp} (cm)				2.20		
	z _{sp} (cm)	1.90				4.70	
	d _{eq} (z _{sp}) (cm)					0.47	
	f _c (MHz)	3.06	2D: 3.30 PD: 3.04	(c)	3.03	3.34	(b)
	Dim of A _{aprt}	X (cm)		1.41	(c)	1.41	(b)
		Y (cm)		1.20	(c)	1.20	(b)
Other Information	PD (μsec)	1.39					
	PRF (Hz)	999					
	P _r @PII _{max} (MPa)	3.15					
	d _{eq} @PII _{max} (cm)					0.44	
	Focal Length	F _L _x (cm)		12.0	(c)	16.0	(b)
		F _L _y (cm)		7.00	(c)	7.00	(b)
I _{pa.3} @ MI _{max} (W/cm ²)		282					
Operating Control Conditions	Control 1	MI					
	Control 2		TIS_as			TIB_bs	
	Control 3				TIS_bs		
	Control 4						
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

Control 1: PD mode, FZ 1, PRF 999

Control 2: 2D+PD mode, General Imaging, FZ 6, FR 35.71

Control 3: 2D+PD mode, General Imaging, FZ 8, FR 28.57

Scanhead Model and Operating Mode: P5-3, CW

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan	Non-Scan		
Maximum Index Value		0.05	(a)	1.99	(c)	3.34	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	0.10					
	W _o (mW)		(a)	136		135	(b)
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)				(c)		
	z ₁ (cm)				(c)		
	z _{bp} (cm)				(c)		
	z _{sp} (cm)	1.80				1.80	
	d _{eq} (z _{sp}) (cm)					0.62	
	f _c (MHz)	3.08	(a)	3.08	(c)	3.08	(b)
	Dim of A _{aprt}	X (cm)	(a)	0.35	(c)	0.35	(b)
		Y (cm)	(a)	1.20	(c)	1.20	(b)
Other Information	PD (μsec)	CW					
	PRF (Hz)	CW					
	P _r @P _{II} _{max} (MPa)	0.14					
	d _{eq} @P _{II} _{max} (cm)					0.50	
	Focal Length	F _L _x (cm)	(a)	6.00	(c)		(b)
		F _L _y (cm)	(a)	7.00	(c)		(b)
	I _{pa.3} @ MI _{max} (W/cm ²)	0.30					
Operating Control Conditions	Control 1	MI				TIB_bs	
	Control 2			TIS_as			
	Control 3						
	Control 4						
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

Control 1: CW mode, FZ 6

Control 2: CW mode, FZ 3

Scanhead Model and Operating Mode: P7-4, 2D & 2D+M

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan			
				$A_{aprt} \leq 1$	$A_{aprt} > 1$		
Maximum Index Value		0.83	2.27	0.03	(c)	0.16	(b)
Assoc. Acoustic Parameter	$P_{r.3}$ (MPa)	1.73					
	W_o (mW)		112	44.8		218	(b)
	min of $[W_o(z_1), I_{TA.3}(z_1)]$ (mW)				(c)		
	z_1 (cm)				(c)		
	z_{bp} (cm)				(c)		
	z_{sp} (cm)	1.30				2.20	
	$d_{eq}(z_{sp})$ (cm)					0.29	
	f_c (MHz)	4.37	4.33	4.33	(c)	4.17	(b)
	Dim of A_{aprt}	X (cm)	0.81	0.81	(c)	0.54	(b)
		Y (cm)	0.80	0.80	(c)	0.80	(b)
Other Information	PD (μsec)	0.27					
	PRF (Hz)	* 51.8					
	$P_r @ PII_{max}$ (MPa)	2.11					
	$d_{eq} @ PII_{max}$ (cm)					0.28	
	Focal Length	FL_x (cm)	6.00	6.00	(c)		(b)
		FL_y (cm)	5.00	5.00	(c)		(b)
	$I_{pa.3} @ MI_{max}$ (W/cm ²)	168					
Operating Control Conditions	Control 1	MI					
	Control 2		TIS_as	Tis_as_U			
	Control 3					TIB_bs	
	Control 4						
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D mode, Penetration Imaging, FZ 1, FR 51.78

Control 2: 2D+M mode, General Imaging, FZ 5, FR 51.78

Control 3: 2D+M mode, General Imaging, FZ 2, FR 51.78

Scanhead Model and Operating Mode: P7-4, 2D+Color, Triple, CPA & Triple CPA

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan			
				A _{aprt} ≤1	A _{aprt} >1		
Maximum Index Value		0.64	3.57	0.66	(c)	2.31	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	1.25					
	W _o (mW)		196	35.8		152	(b)
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)				(c)		
	z ₁ (cm)				(c)		
	z _{bp} (cm)				(c)		
	z _{sp} (cm)	2.50				1.00	
	d _{eq} (z _{sp}) (cm)					0.43	
	f _c (MHz)	3.87	2D: 4.70 Col: 3.87	M: 4.60 Col: 3.87	(c)	M: 4.48 Col: 3.89	(b)
	Dim of A _{aprt}	X (cm)	0.96	0.96	(c)	0.27	(b)
		Y (cm)	0.80	0.80	(c)	0.80	(b)
Other Information	PD (μsec)	1.09					
	PRF (Hz)	* 1250					
	P _r @PII _{max} (MPa)	1.64					
	d _{eq} @PII _{max} (cm)					0.43	
	Focal Length	FL _x (cm)	16.0	14.0	(c)		(b)
		FL _y (cm)	5.00	5.00	(c)		(b)
I _{pa.3} @ MI _{max} (W/cm ²)		74.2					
Operating Control Conditions	Control 1	MI					
	Control 2		TIS_as				
	Control 3			Tis_as_U			
	Control 4					TIB_bs	
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: Triple mode, Penetration Imaging, FZ 6, FR 2

Control 2: 2D+Color, General Imaging, FZ 7, FR 8

Control 3: Color M, Penetration Imaging, FZ 7, PRF 3840

Control 4: Triple mode, Penetration Imaging, FZ 5, PRF 3840

Scanhead Model and Operating Mode: P7-4, Pulsed Doppler & 2D+Pulsed Doppler

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan			
				A _{aprt} ≤1	A _{aprt} >1		
Maximum Index Value		0.64	2.04	0.55	(c)	1.20	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	1.25					
	W _o (mW)		109	29.8		25.6	(b)
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)				(c)		
	z ₁ (cm)				(c)		
	z _{bp} (cm)				(c)		
	z _{sp} (cm)	2.50				2.40	
	d _{eq} (z _{sp}) (cm)					0.25	
	f _c (MHz)	3.87	2D: 4.81 PD: 3.90	3.90	(c)	3.88	(b)
	Dim of A _{aprt}	X (cm)	0.96	0.96	(c)	0.54	(b)
		Y (cm)	0.80	0.80	(c)	0.80	(b)
Other Information	PD (μsec)	1.09					
	PRF (Hz)	* 999					
	P _r @PII _{max} (MPa)	1.64					
	d _{eq} @PII _{max} (cm)					0.24	
	Focal Length	F _L _x (cm)	10.0	14.0	(c)		(b)
		F _L _y (cm)	5.00	5.00	(c)		(b)
I _{pa.3} @ MI _{max} (W/cm ²)		74.2					
Operating Control Conditions	Control 1	MI					
	Control 2		TIS_as				
	Control 3			Tis_as_U			
	Control 4					TIB_bs	
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D+PD mode, General Imaging, FZ 6, PRF 999

Control 2: 2D+PD mode, General Imaging, FZ 6, PRF 3000

Control 3: PD mode, FZ 7, PRF 7000

Control 4: PD mode, FZ 2, PRF 7000

Scanhead Model and Operating Mode: P7-4, CW

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan	Non-Scan		
Maximum Index Value		0.04	(a)	1.34	(c)	2.20	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	0.08					
	W _o (mW)		(a)	73.2		72.7	(b)
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)				(c)		
	z ₁ (cm)				(c)		
	z _{bp} (cm)				(c)		
	z _{sp} (cm)	0.90				0.90	
	d _{eq} (z _{sp}) (cm)					0.59	
	f _c (MHz)	3.85	(a)	3.85	(c)	3.85	(b)
	Dim of A _{aprt}	X (cm)	(a)	0.24	(c)	0.24	(b)
		Y (cm)	(a)	0.80	(c)	0.80	(b)
Other Information	PD (μsec)	CW					
	PRF (Hz)	CW					
	P _r @PII _{max} (MPa)	0.10					
	d _{eq} @PII _{max} (cm)					0.49	
	Focal Length	F _L _x (cm)	(a)	2.00	(c)		(b)
		F _L _y (cm)	(a)	5.00	(c)		(b)
Operating Control Conditions	I _{pa.3} @ MI _{max} (W/cm ²)	0.21					
	Control 1	MI				TIB_bs	
	Control 2			TIS_as			
	Control 3						
	Control 4						
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

Control 1: CW mode, FZ 7

Control 2: CW mode, FZ 1

Scanhead Model and Operating Mode: 3D5-3, 2D, 2D+M & 3D

Index Label		MI	TIS		TIB	TIC		
			Scan	Non-Scan				
				A _{aprt} ≤1	A _{aprt} >1			
Maximum Index Value		1.24	0.18	0.06	(c)	0.03	(b)	
Assoc. Acoustic Parameter	P _{r.3} (MPa)	1.99	-	-	-	-		
	W _o (mW)	-	95.5	20.1	-	12.4	(b)	
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)	-	-	-	(c)	-		
	z ₁ (cm)	-	-	-	(c)	-		
	z _{bp} (cm)	-	-	-	(c)	-		
	z _{sp} (cm)	3.50	-	-	-	4.40		
	d _{eq} (z _{sp}) (cm)	-	-	-	-	1.27		
	f _c (MHz)	2.58	2.42	3.26	(c)	2.80	(b)	
	Dim of A _{aprt}	X (cm)	-	6.05	0.37	(c)	3.01	(b)
		Y (cm)	-	1.30	1.30	(c)	1.30	(b)
Other Information	PD (μsec)	0.45	-	-	-	-		
	PRF (Hz)	* 24.5	-	-	-	-		
	P _r @P _{II} _{max} (MPa)	2.57	-	-	-	-		
	d _{eq} @P _{II} _{max} (cm)	-	-	-	-	1.16		
	Focal Length	F _L _x (cm)	-	17.5	2.00	(c)	-	(b)
		F _L _y (cm)	-	8.00	8.00	(c)	-	(b)
I _{pa.3} @ MI _{max} (W/cm ²)		204	-	-	-	-		
Operating Control Conditions	Control 1	MI						
	Control 2		TIS_as					
	Control 3			Tis_as_U		TIB_bs		
	Control 4							
	Control 5							
	Control 6							
	Control 7							

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D mode, Penetration Imaging, FZ 2, FR 24.45

Control 2: 2D mode, Penetration Imaging, FZ 8, FR 25.76

Control 3: 2D+M mode, General Imaging, FZ 1, FR 24.45

Scanhead Model and Operating Mode: 3D5-3, 2D+Color, Triple, CPA & Triple CPA

Index Label		MI	TIS		TIB	TIC		
			Scan	Non-Scan				
				A _{aprt} ≤1	A _{aprt} >1			
Maximum Index Value		1.28	1.06	0.80	(c)	1.45	(b)	
Assoc. Acoustic Parameter	P _{r.3} (MPa)	2.13	-	-	-	-		
	W _o (mW)	-	255	79.0	-	115	(b)	
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)	-	-	-	(c)	-		
	z ₁ (cm)	-	-	-	(c)	-		
	z _{bp} (cm)	-	-	-	(c)	-		
	z _{sp} (cm)	1.70	-	-	-	1.70		
	d _{eq} (z _{sp}) (cm)	-	-	-	-	0.35		
	f _c (MHz)	2.76	2D: 2.75 CPA: 2.54	2.73	(c)	2.77	(b)	
	Dim of A _{aprt}	X (cm)	-	2D: 6.02 CPA: 3.85	0.74	(c)	0.37	(b)
		Y (cm)	-	1.30	1.30	(c)	1.30	(b)
Other Information	PD (μsec)	1.55	-	-	-	-		
	PRF (Hz)	* 189	-	-	-	-		
	P _r @PII _{max} (MPa)	2.47	-	-	-	-		
	d _{eq} @PII _{max} (cm)	-	-	-	-	0.35		
	Focal Length	FL _x (cm)	-	14.0	3.50	(c)	-	(b)
		FL _y (cm)	-	8.00	8.00	(c)	-	(b)
Operating Control Conditions	I _{pa.3} @ MI _{max} (W/cm ²)	201	-	-	-	-		
	Control 1	MI						
	Control 2		TIS_as					
	Control 3			Tis_as_U				
	Control 4					TIB_bs		
	Control 5							
	Control 6							
	Control 7							

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: CPA mode, General Imaging, FZ 1, FR 13.51

Control 2: CPA mode, General Imaging, FZ 7, FR 16.43

Control 3: Triple CPA mode, General Imaging, FZ 2, FR 2.48

Control 4: Triple CPA mode, General Imaging, FZ 1, FR 2.48

Scanhead Model and Operating Mode: 3D5-3, Pulsed Doppler & 2D+Pulsed Doppler

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan			
				A _{aprt} ≤1	A _{aprt} >1		
Maximum Index Value		1.28	0.85	(c)	1.41	0.85	
Assoc. Acoustic Parameter	P _{r.3} (MPa)	2.13	-			-	
	W _o (mW)	-	155	(c)		155	
	min of [W _o (z ₁), I _{TA.3(z₁)}] (mW)	-	-		108	-	
	z ₁ (cm)	-	-		3.10	-	
	z _{bp} (cm)	-	-		3.33	-	
	z _{sp} (cm)	1.70	-			6.20	
	d _{eq} (z _{sp}) (cm)	-	-			1.92	
	f _c (MHz)	2.76	2D: 2.96 PD: 2.54	(c)	2.75	2.54	
	Dim of A _{aprt}	X (cm)	-	2D: 6.02 PD: 1.69	(c)	2.98	
		Y (cm)	-	1.30	(c)	1.30	
Other Information	PD (μsec)	1.55	-			-	
	PRF (Hz)	* 999	-			-	
	P _r @PII _{max} (MPa)	2.47	-			-	
	d _{eq} @PII _{max} (cm)	-	-			2.33	
	Focal Length	FL _x (cm)	-	8.80	(c)	14.5	
		FL _y (cm)	-	8.00	(c)	8.00	
Operating Control Conditions	I _{pa.3} @ MI _{max} (W/cm ²)	201	-	-	-	-	
	Control 1	MI					
	Control 2		TIS_as			TIB_bs	
	Control 3				TIS_bs		
	Control 4						
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D+PD mode, General Imaging, FZ 1, PRF 999, FR 7.46

Control 2: 2D+PD mode, General Imaging, FZ 5, PRF 3000, FR 22.39

Control 3: PD mode, FZ 7, PRF 7000

Scanhead Model and Operating Mode: 3D7-4, 2D, 2D+M & 3D

Index Label		MI	TIS		TIB	TIC		
			Scan	Non-Scan				
				A _{aprt} ≤1	A _{aprt} >1			
Maximum Index Value		1.50	0.42	1.03	(c)	0.13	(b)	
Assoc. Acoustic Parameter	P _{r.3} (MPa)	2.54				-		
	W _o (mW)	-	113	161		97.4	(b)	
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)	-			(c)	-		
	z ₁ (cm)	-			(c)	-		
	z _{bp} (cm)	-			(c)	-		
	z _{sp} (cm)	3.50				3.60		
	d _{eq} (z _{sp}) (cm)	-				0.83		
	f _c (MHz)	2.88	3.12	3.30	(c)	3.13	(b)	
	Dim of A _{aprt}	X (cm)	-	2D: 4.86 M: 1.44	1.44	(c)	1.06	(b)
		Y (cm)	-	1.20	1.20	(c)	1.20	(b)
Other Information	PD (μsec)	0.51				-		
	PRF (Hz)	* 20.3				-		
	P _r @PII _{max} (MPa)	3.45				-		
	d _{eq} @PII _{max} (cm)	-				0.82		
	Focal Length	F _L _x (cm)	-	6.80	6.80	(c)	-	(b)
		F _L _y (cm)	-	6.00	6.00	(c)	-	(b)
I _{pa.3} @ MI _{max} (W/cm ²)		361	-			-		
Operating Control Conditions	Control 1	MI						
	Control 2		TIS_as					
	Control 3			Tis_as_U				
	Control 4					TIB_bs		
	Control 5							
	Control 6							
	Control 7							

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D mode, Resolution Imaging, FZ 3, FR 20.32

Control 2: 2D+M mode, General Imaging, FZ 4, FR 25.81

Control 3: 2D+M mode, Resolution Imaging, FZ 3, FR 28.29

Control 4: 2D+M mode, Penetration Imaging, FZ 3, FR 28.29

Scanhead Model and Operating Mode: 3D7-4, 2D+Color, Triple, CPA & Triple CPA

Index Label		MI	TIS		TIB	TIC		
			Scan	Non-Scan				
				A _{aprt} ≤1	A _{aprt} >1			
Maximum Index Value		1.00	0.85	1.92	(c)	1.73	(b)	
Assoc. Acoustic Parameter	P _{r.3} (MPa)	1.67	-			-		
	W _o (mW)	-	102	197		113	(b)	
	min of [W _o (z ₁), I _{TA.3(z₁)}] (mW)	-	-		(c)	-		
	z ₁ (cm)	-	-		(c)	-		
	z _{bp} (cm)	-	-		(c)	-		
	z _{sp} (cm)	3.80	-			3.70		
	d _{eq} (z _{sp}) (cm)	-	-			0.48		
	f _c (MHz)	2.82	2D: 3.37 CPA: 2.81	2.82	(c)	2.82	(b)	
	Dim of A _{aprt}	X (cm)	-	2D: 4.86 CPA: 2.28	1.06	(c)	1.06	(b)
		Y (cm)	-	1.20	1.20	(c)	1.20	(b)
Other Information	PD (μsec)	1.58	-			-		
	PRF (Hz)	* 38.6	-			-		
	P _r @PII _{max} (MPa)	2.35	-			-		
	d _{eq} @PII _{max} (cm)	-	-			0.47		
	Focal Length	FL _x (cm)	-	6.80	5.00	(c)	-	(b)
		FL _y (cm)	-	6.00	6.00	(c)	-	(b)
Operating Control Conditions	I _{pa.3} @ MI _{max} (W/cm ²)	161	-		-	-		
	Control 1	MI						
	Control 2		TIS_as					
	Control 3			Tis_as_U				
	Control 4					TIB_bs		
	Control 5							
	Control 6							
	Control 7							

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D+Color mode, General Imaging, FZ 3, FR 2.41

Control 2: CPA mode, General Imaging, FZ 4, FR 16.43

Control 3: Triple mode, Penetration Imaging, FZ 3, FR 1.51

Control 4: Triple mode, Penetration Imaging, FZ 3, FR 2.27

Scanhead Model and Operating Mode: 3D7-4, Pulsed Doppler & 2D+Pulsed Doppler

Index Label		MI	TIS		TIB	TIC		
			Scan	Non-Scan				
				A _{aprt} ≤1	A _{aprt} >1			
Maximum Index Value		1.00	0.87	1.92	(c)	2.59	(b)	
Assoc. Acoustic Parameter	P _{r.3} (MPa)	1.67	-	-	-	-		
	W _o (mW)		69.5	143	-	66.2	(b)	
	min of [W _o (z ₁), I _{TA.3(z₁)}] (mW)		-	-	(c)	-		
	z ₁ (cm)		-	-	(c)	-		
	z _{bp} (cm)		-	-	(c)	-		
	z _{sp} (cm)	3.80	-	-	-	1.20		
	d _{eq} (z _{sp}) (cm)		-	-	-	0.39		
	f _c (MHz)	2.82	2D: 3.48 PD: 2.82	2.82	(c)	2.83	(b)	
	Dim of A _{aprt}	X (cm)	2D: 4.86 PD: 0.76	1.06	(c)	0.83	(b)	
		Y (cm)		1.20	1.20	(c)	1.20	(b)
Other Information	PD (μsec)	1.58	-	-	-	-		
	PRF (Hz)	999	-	-	-	-		
	P _r @PII _{max} (MPa)	2.35	-	-	-	-		
	d _{eq} @PII _{max} (cm)		-	-	-	0.39		
	Focal Length	FL _x (cm)		3.50	5.00	(c)	-	(b)
		FL _y (cm)		6.00	6.00	(c)	-	(b)
Operating Control Conditions	I _{pa.3} @ MI _{max} (W/cm ²)	161	-	-	-	-		
	Control 1	MI		TIS_as_U				
	Control 2		TIS_as					
	Control 3					TIB_bs		
	Control 4							
	Control 5							
	Control 6							
	Control 7							

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

Control 1: PD mode, FZ 3, PRF 999

Control 2: 2D+PD mode, General Imaging, FZ 2, FR 29.85

Control 3: PD mode, FZ 1, PRF 7999

Scanhead Model and Operating Mode: MPT7-4, 2D & 2D+M

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan	Non-Scan		
Maximum Index Value		0.82	3.44	0.35	(c)	0.11	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	1.69					
	W _o (mW)		237	67.2		131	(b)
	min of [W _o (z ₁), I _{TA.3(z₁)}] (mW)				(c)		
	z ₁ (cm)				(c)		
	z _{bp} (cm)				(c)		
	z _{sp} (cm)	2.80				2.70	
	d _{eq} (z _{sp}) (cm)					0.76	
	f _c (MHz)	4.22	3.21	4.60	(c)	4.22	(b)
	Dim of A _{aprt}	X (cm)	1.02	1.02	(c)	1.02	(b)
		Y (cm)	0.77	0.77	(c)	0.77	(b)
Other Information	PD (μsec)	0.56					
	PRF (Hz)	* 59.8					
	P _r @P _{II} _{max} (MPa)	2.47					
	d _{eq} @P _{II} _{max} (cm)					0.71	
	Focal Length	F _L _x (cm)	9.00	6.50	(c)		(b)
		F _L _y (cm)	4.00	4.00	(c)		(b)
Operating Control Conditions	I _{pa.3} @ MI _{max} (W/cm ²)	155					
	Control 1	MI					
	Control 2		TIS_as				
	Control 3			Tis_as_U			
	Control 4					TIB_bs	
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D mode, Penetration Imaging, FZ 5, FR 59.78

Control 2: 2D mode, General Imaging, FZ 7, FR 55.23

Control 3: 2D+M mode, Resolution Imaging, FZ 6, FR 38.0

Control 4: 2D+M mode, Penetration Imaging, FZ 5, FR 60.0

Scanhead Model and Operating Mode: MPT7-4, 2D+Color, Triple, CPA & Triple CPA

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan			
				A _{aprt} ≤1	A _{aprt} >1		
Maximum Index Value		1.14	3.99	4.29	(c)	2.29	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	2.18			-		
	W _o (mW)		237	386	160	(b)	
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)				(c)	-	
	z ₁ (cm)				(c)	-	
	z _{bp} (cm)				(c)	-	
	z _{sp} (cm)	2.60			2.20		
	d _{eq} (z _{sp}) (cm)				0.43		
	f _c (MHz)	3.63	2D: 4.40 Color: 3.70	3.80	(c)	3.67	(b)
	Dim of A _{aprt}	X (cm)		1.02	(c)	0.67	(b)
		Y (cm)		0.77	(c)	0.77	(b)
Other Information	PD (μsec)	0.88			-		
	PRF (Hz)	* 999			-		
	P _r @PII _{max} (MPa)	2.85			-		
	d _{eq} @PII _{max} (cm)				0.41		
	Focal Length	FL _x (cm)		6.50	(c)	-	(b)
		FL _y (cm)		4.00	(c)	-	(b)
I _{pa.3} @ MI _{max} (W/cm ²)		300		-	-	-	
Operating Control Conditions	Control 1	MI					
	Control 2		TIS_as				
	Control 3			Tis_as_U			
	Control 4				TIB_bs		
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: Triple mode, Penetration Imaging, FZ 5, FR 1.98

Control 2: 2D+Color mode, General Imaging, FZ 6, FR 9.63

Control 3: Triple mode, Penetration Imaging, FZ 6, FR 2.15

Control 4: Triple mode, Penetration Imaging, FZ 4, FR 4.45

Scanhead Model and Operating Mode: MPT7-4, Pulsed Doppler & 2D+Pulsed Doppler

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan			
				A _{aprt} ≤1	A _{aprt} >1		
Maximum Index Value		0.74	4.02	4.70	(c)	2.53	
Assoc. Acoustic Parameter	P _{r.3} (MPa)	1.66	-	-	-	-	
	W _o (mW)	-	233	277	-	266	
	min of [W ₃ (z ₁), I _{T A.3(z₁)}] (mW)	-	-	-	(c)	-	
	z ₁ (cm)	-	-	-	(c)	-	
	z _{bp} (cm)	-	-	-	(c)	-	
	z _{sp} (cm)	2.00	-	-	-	3.20	
	d _{eq} (z _{sp}) (cm)	-	-	-	-	0.76	
	f _c (MHz)	5.09	2D: 4.23 PD: 3.63	3.63	(c)	3.65	
Other Information	Dim of A _{aprt}	X (cm)	-	1.02	1.02	(b)	
		Y (cm)	-	0.77	0.77	(b)	
	PD (μsec)	0.72	-	-	-	-	
	PRF (Hz)	999	-	-	-	-	
	P _r @P _{II} _{max} (MPa)	2.34	-	-	-	-	
Operating Control Conditions	d _{eq} @P _{II} _{max} (cm)	-	-	-	-	0.72	
	Focal Length	FL _x (cm)	-	13.0	13.0	(b)	
		FL _y (cm)	-	4.00	4.00	(b)	
	I _{pa.3} @ MI _{max} (W/cm ²)	135	-	-	-	-	
	Control 1	MI					
	Control 2		TIS_as	Tis_as_U			
	Control 3				TIB_bs		
	Control 4						
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

Control 1: PD mode, FZ 3, PRF 999

Control 2: 2D+PD mode, General Imaging, FZ 8, FR 24.51

Control 3: 2D+PD mode, General Imaging, FZ 7, FR 29.41

Scanhead Model and Operating Mode: MPT7-4, CW

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan			
				$A_{aprt} \leq 1$	$A_{aprt} > 1$		
Maximum Index Value		0.05	(a)	0.75	(c)	0.59	(b)
Assoc. Acoustic Parameter	$P_{r,3}$ (MPa)	0.09					
	W_o (mW)		(a)	41.1		29.9	(b)
	min of $[W_o(z_1), I_{TA,3}(z_1)]$ (mW)				(c)		
	z_1 (cm)				(c)		
	z_{bp} (cm)				(c)		
	z_{sp} (cm)	0.80				1.40	
	$d_{eq}(z_{sp})$ (cm)					0.40	
	f_c (MHz)	3.85	(a)	3.85	(c)	3.85	(b)
	Dim of A_{aprt}	X (cm)	(a)	0.27	(c)	0.27	(b)
		Y (cm)	(a)	0.77	(c)	0.77	(b)
Other Information	PD (usec)	CW					
	PRF (Hz)	CW					
	$P_r @ PII_{max}$ (MPa)	0.11					
	$d_{eq} @ PII_{max}$ (cm)					0.38	
	Focal Length	FL_x (cm)	(a)	1.50	(c)		(b)
		FL_y (cm)	(a)	4.00	(c)		(b)
	$I_{pa,3} @ MI_{max}$ (W/cm ²)	0.26					
Operating Control Conditions	Control 1	MI					
	Control 2			Tis_as_U			
	Control 3					TIB_bs	
	Control 4						
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

Control 1: CW mode, FZ 5

Control 2: CW mode, FZ 2

Control 3: CW mode, FZ 6

Scanhead Model and Operating Mode: 3D8-5v, 2D, 2D+M & 3D

Index Label		MI	TIS		TIB	TIC		
			Scan	Non-Scan				
				A _{aprt} ≤1	A _{aprt} >1			
Maximum Index Value		0.64	1.00	0.01	(c)	0.10	(b)	
Assoc. Acoustic Parameter	P _{r.3} (MPa)	1.50				-		
	W _o (mW)	-	96.0	96.0		80.7	(b)	
	min of [W _o (z ₁), I _{TA.3(z₁)}] (mW)	-			(c)	-		
	z ₁ (cm)	-			(c)	-		
	z _{bp} (cm)	-			(c)	-		
	z _{sp} (cm)	2.20				1.10		
	d _{eq} (z _{sp}) (cm)	-				0.09		
	f _c (MHz)	5.52	5.22	5.22	(c)	5.39	(b)	
	Dim of A _{aprt}	X (cm)	-	2D: 2.43 M: 1.22	1.22	(c)	0.65	(b)
		Y (cm)	-	0.60	0.60	(c)	0.60	(b)
Other Information	PD (μsec)	0.25				-		
	PRF (Hz)	* 34.3				-		
	P _r @PII _{max} (MPa)	2.03				-		
	d _{eq} @PII _{max} (cm)	-				0.07		
	Focal Length	F _L _x (cm)	-	7.00	7.00	(c)	-	(b)
		F _L _y (cm)	-	3.00	3.00	(c)	-	(b)
I _{pa.3} @ MI _{max} (W/cm ²)		141	-			-		
Operating Control Conditions	Control 1	MI						
	Control 2		TIS_as	Tis_as_U				
	Control 3					TIB_bs		
	Control 4							
	Control 5							
	Control 6							
	Control 7							

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D mode, General Imaging, FZ 3, FR 34.31

Control 2: 2D+M mode, General Imaging, FZ 8, FR 23.4

Control 3: 2D+M mode, General Imaging, FZ 2, FR 34.31

Scanhead Model and Operating Mode: 3D8-5v, 2D+Color, Triple, CPA & Triple CPA

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan	Non-Scan		
Maximum Index Value		1.37	2.54	0.43	(c)	1.98	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	3.06	-			-	
	W _o (mW)	-	110	18.2		89.8	(b)
	min of [W _o (z ₁), I _{TA.3(z₁)}] (mW)	-	-		(c)	-	
	z ₁ (cm)	-	-		(c)	-	
	z _{bp} (cm)	-	-		(c)	-	
	z _{sp} (cm)	1.80	-			0.90	
	d _{eq} (z _{sp}) (cm)	-	-			0.26	
	f _c (MHz)	4.99	2D: 5.70 CPA: 5.06	4.99	(c)	5.01	(b)
Dim of A _{aprt}	X (cm)	-	2.43	0.80	(c)	0.38	(b)
	Y (cm)	-	0.60	0.60	(c)	0.60	(b)
Other Information	PD (μsec)	0.76	-			-	
	PRF (Hz)	* 999	-			-	
	P _r @PII _{max} (MPa)	4.20	-			-	
	d _{eq} @PII _{max} (cm)	-	-			0.21	
	Focal Length	F _L _x (cm)	-	1.40	2.90	(c)	-
		F _L _y (cm)	-	3.00	3.00	(c)	-
I _{pa.3} @ MI _{max} (W/cm ²)		334	-		-	-	
Operating Control Conditions	Control 1	MI					
	Control 2		TIS_as				
	Control 3			Tis_as_U			
	Control 4					TIB_bs	
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: Triple mode, Penetration Imaging, FZ 3, FR 1.51

Control 2: CPA mode, General Imaging, FZ 2, FR 9.70

Control 3: Triple mode, Penetration Imaging, FZ 4, FR 1.51

Control 4: Triple mode, Penetration Imaging, FZ 2, FR 1.51

Scanhead Model and Operating Mode: 3D8-5v, Pulsed Doppler & 2D+Pulsed Doppler

Index Label	MI	TIS		TIB		TIC	
		Scan	Non-Scan		Non-Scan		
			A _{aprt} ≤1	A _{aprt} >1			
Maximum Index Value	1.37	2.12	0.46	(c)	2.20	(b)	
Assoc. Acoustic Parameter	P _{r.3} (MPa)	3.06	-	-	-	-	
	W _o (mW)		93.1	19.7	-	93.1 (b)	
	min of [W ₃ (z ₁), I _{T A.3(z₁)}] (mW)		-	-	(c)	-	
	z ₁ (cm)		-	-	(c)	-	
	z _{bp} (cm)		-	-	(c)	-	
	z _{sp} (cm)	1.80	-	-	-	0.90	
	d _{eq} (z _{sp}) (cm)		-	-	-	0.24	
	f _c (MHz)	4.99	2D: 5.56 PD: 4.99	4.94	(c)	4.99 (b)	
Other Information	Dim of A _{aprt}	X (cm)	2D: 2.43 PD: 0.38	1.03	(c)	0.39 (b)	
		Y (cm)	0.60	0.60	(c)	0.60 (b)	
	PD (μsec)	0.76	-	-	-	-	
	PRF (Hz)	999	-	-	-	-	
	P _r @P _{II} _{max} (MPa)	4.20	-	-	-	-	
	d _{eq} @P _{II} _{max} (cm)		-	-	-	0.21	
Operating Control Conditions	Focal Length	F _L _x (cm)	1.40	3.70	(c)	- (b)	
		F _L _y (cm)	3.00	3.00	(c)	- (b)	
	I _{pa.3} @ MI _{max} (W/cm ²)	334	-	-	-	-	
	Control 1	MI					
	Control 2		TIS_as		TIB_bs		
	Control 3			Tis_as_U			
	Control 4						
Control 5							
Control 6							
Control 7							

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

Control 1: PD mode, FZ 3, PRF 999

Control 2: 2D+PD mode, General Imaging, FZ 2, FR 6.85

Control 3: PD mode, FZ 5, PRF 999

Scanhead Model and Operating Mode: L7-4, 2D, 2D+M & 3D

Index Label		MI	TIS		TIB	TIC		
			Scan	Non-Scan				
				A _{aprt} ≤1	A _{aprt} >1			
Maximum Index Value		1.66	0.67	0.08	(c)	0.05	(b)	
Assoc. Acoustic Parameter	P _{r.3} (MPa)	3.70				-		
	W _o (mW)	-	284	28.0		24.1	(b)	
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)	-			(c)	-		
	z ₁ (cm)	-			(c)	-		
	z _{bp} (cm)	-			(c)	-		
	z _{sp} (cm)	1.90				2.00		
	d _{eq} (z _{sp}) (cm)	-				0.26		
	f _c (MHz)	4.96	4.89	5.25	(c)	5.30	(b)	
	Dim of A _{aprt}	X (cm)	-	2.58	0.84	(c)	0.66	(b)
		Y (cm)	-	0.60	0.60	(c)	0.60	(b)
Other Information	PD (μsec)	0.44				-		
	PRF (Hz)	* 22.9				-		
	P _r @PII _{max} (MPa)	5.36				-		
	d _{eq} @PII _{max} (cm)	-				0.26		
	Focal Length	F _L _x (cm)	-	2.80	2.80	(c)	-	(b)
		F _L _y (cm)	-	1.70	1.70	(c)	-	(b)
	I _{pa.3} @ MI _{max} (W/cm ²)	660	-			-		
Operating Control Conditions	Control 1	MI						
	Control 2		TIS_as					
	Control 3			Tis_as_U				
	Control 4					TIB_bs		
	Control 5							
	Control 6							
	Control 7							

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D mode, Penetration Imaging, FZ 4, FR 22.9

Control 2: 2D mode, Penetration Imaging, FZ 4, FR 44.35

Control 3: 2D+M mode, Penetration Imaging, FZ 5, FR 40.46

Control 4: 2D+M mode, Penetration Imaging, FZ 4, FR 44.35

Scanhead Model and Operating Mode: L7-4, 2D+Color, Triple, CPA & Triple CPA

Index Label		MI	TIS		TIB	TIC		
			Scan	Non-Scan	Non-Scan			
Maximum Index Value		1.77	2.19	3.89	(c)	1.45	(b)	
Assoc. Acoustic Parameter	P _{r.3} (MPa)	3.53	-			-		
	W _o (mW)	-	333	25.3		77.8	(b)	
	min of [W _o (z ₁), I _{TA.3(z₁)}] (mW)	-	-		(c)	-		
	z ₁ (cm)	-	-		(c)	-		
	z _{bp} (cm)	-	-		(c)	-		
	z _{sp} (cm)	1.60	-			1.60		
	d _{eq(z_{sp})} (cm)	-	-			0.17		
	f _c (MHz)	3.97	2D: 4.46 Col: 3.95	4.09	(c)	4.08	(b)	
	Dim of A _{aprt}	X (cm)	-	2D: 3.72 Col: 3.84	0.66	(c)	1.08	(b)
		Y (cm)	-	0.60	0.60	(c)	0.60	(b)
Other Information	PD (μsec)	0.64	-			-		
	PRF (Hz)	* 128	-			-		
	P _r @PII _{max} (MPa)	4.12	-			-		
	d _{eq} @PII _{max} (cm)	-	-			0.14		
	Focal Length	FL _x (cm)	-	4.40	2.80	(c)	-	(b)
		FL _y (cm)	-	1.70	1.70	(c)	-	(b)
Operating Control Conditions	I _{pa.3} @ MI _{max} (W/cm ²)	642	-		-	-		
	Control 1	MI						
	Control 2		TIS_as					
	Control 3			Tis_as_U				
	Control 4					TIB_bs		
	Control 5							
	Control 6							
	Control 7							

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

* PRF for scanning modes is the product of the frame rate and the number of pulse per line

Control 1: 2D+Color mode, General Imaging, FZ 4, FR 8.02

Control 2: 2D+Color mode, General Imaging, FZ 6, FR 10.95

Control 3: Triple mode, Penetration Imaging, FZ 4, FR 1.98

Control 4: Triple mode, Penetration Imaging, FZ 6, FR 5.88

Scanhead Model and Operating Mode: L7-4, Pulsed Doppler & 2D+Pulsed Doppler

Index Label		MI	TIS		TIB	TIC	
			Scan	Non-Scan			
				A _{aprt} ≤1	A _{aprt} >1		
Maximum Index Value		1.46	1.40	4.00	(c)	2.37	(b)
Assoc. Acoustic Parameter	P _{r.3} (MPa)	2.93	-	-	-	-	
	W _o (mW)		71.4	56.2	-	65.7	(b)
	min of [W _o (z ₁), I _{TA.3} (z ₁)] (mW)		-	-	(c)	-	
	z ₁ (cm)		-	-	(c)	-	
	z _{bp} (cm)		-	-	(c)	-	
	z _{sp} (cm)	2.10	-	-	-	1.60	
	d _{eq} (z _{sp}) (cm)		-	-	-	0.18	
	f _c (MHz)	4.04	2D: 5.92 PD: 4.34	4.35	(c)	4.05	(b)
	Dim of A _{aprt}	X (cm)	2D: 3.84 PD: 1.74	1.74	(c)	1.38	(b)
		Y (cm)	0.60	0.60	(c)	0.60	(b)
Other Information	PD (μsec)	0.90	-	-	-	-	
	PRF (Hz)	999	-	-	-	-	
	P _r @PII _{max} (MPa)	3.83	-	-	-	-	
	d _{eq} @PII _{max} (cm)		-	-	-	0.17	
	Focal Length	FL _x (cm)	5.80	5.80	(c)	-	(b)
		FL _y (cm)	1.70	1.70	(c)	-	(b)
Operating Control Conditions	I _{pa.3} @ MI _{max} (W/cm ²)	471	-	-	-	-	
	Control 1	MI					
	Control 2		TIS_as				
	Control 3			Tis_as_U			
	Control 4					TIB_bs	
	Control 5						
	Control 6						
	Control 7						

Notes:

- (a) This index is not required for this operating mode.
- (b) This probe is not intended for adult transcranial uses.
- (c) This formulation for TIS is less than that for an alternate formulation in this mode.
- (d) The maximum index value is less than 1.0

Control 1: PD mode, FZ 5, PRF 999

Control 2: 2D+PD mode, General Imaging, FZ 8, FR 28.99

Control 3: 2D+PD mode, General Imaging ,FZ 8, FR 7.25

Control 4: 2D+PD mode, General Imaging ,FZ 7, FR 37.74